

CITY OF MELROSE, MASSACHUSETTS.

Annual Reports, **1903,**

WITH MAYOR'S INAUGURAL ADDRESS
DELIVERED JANUARY 5, 1903.

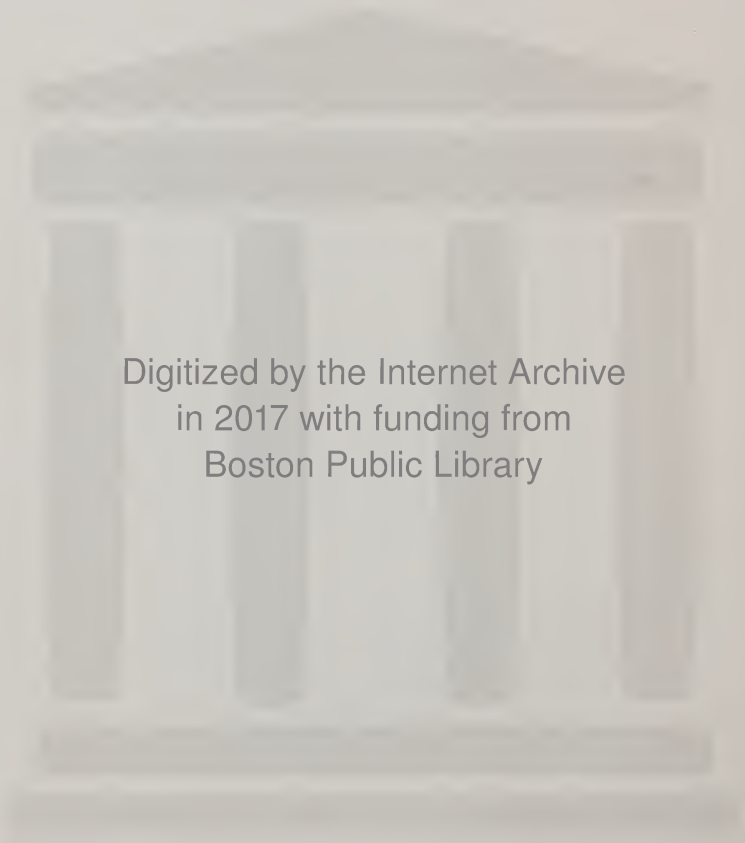


PUBLISHED BY ORDER OF THE BOARD OF ALDERMEN, UNDER
THE DIRECTION OF THE CITY CLERK.

MELROSE :
THE A. W. DUNTON PRINTING COMPANY.

1904.





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INAUGURAL ADDRESS

OF

HON. SIDNEY H. BUTTRICK,

MAYOR OF MELROSE,

DELIVERED JAN. 5TH, 1903.

Mr. President and Gentlemen of the Board of Aldermen:

We meet today for the purpose of inaugurating in a formal manner the government of the city of Melrose for the year 1903, and to take upon ourselves the oath of office to manage the affairs of our city honestly and faithfully. We assume the duties and responsibilities thus placed in our keeping as a public trust, to be administered not only wisely and economically but also in a progressive way, for this is an age of progress. The demands of the people increase faster than the public treasury can easily provide for, and while I advise the strictest economy and careful consideration of every appropriation, yet we must not neglect to provide for the comfort and convenience of our citizens in the maintenance of our streets, schools, public buildings, and the other departments of our city, striving at all times to get a just and appreciable return for money expended. It is difficult to understand the average community. Individually the citizens will demand the best. Collectively they will complain of extravagance and the burden of taxation.

To show how fallacious is this universal cry of the great burden of taxation, I wish to call your attention to the following statistics, taken from the assessors' books for the last year.

The number of resident individuals and firms paying real estate taxes were 1924.

Average real estate tax for each individual . . .	\$90 51
Number of resident individuals, firms, etc., paying less than \$50 tax	968
Number paying less than \$100	1726
Number paying more than \$100	198

Of the 1924 paying real estate taxes in our city, fully 75% pay \$1.50 a week for all the benefits they derive from a well governed city — the privilege of educating their children in the best possible manner, fire and police protection, safe and convenient streets, public library, and everything that tends to make their condition agreeable and pleasant. I do not state this for the purpose of encouraging increased expenditures, but simply for the people to look somewhat on the bright side of life, and to have them appreciate what the present and past administrations are doing for them. Let us turn our faces to the rising sun and have faith in the future of our city.

It is almost impossible for an administration to stand wholly upon its own merits or to avoid transmitting some of its burdens to the succeeding city governments. The municipal year that we are now entering upon is but a link in the great chain of years which go to make up the history of our City, and I desire that in matter of the expenditures of money we should complete our work and leave no legacies of unpaid bills to a succeeding administration. I find that the incoming government will have loans for the expenditures of the year 1902 to the amount of \$17,153.33 to add to the tax levy of this year, that the year 1901 handed down a burden of \$23,095.95 which was paid out of the tax of 1902. This is not right and should be corrected. The Annual Budget after it has gone through the several stages

of its legislation, is finally passed by the Board of Aldermen and approved by the Mayor, should stand and be final, and no appropriation made thereafter, unless for some cause wholly unforeseen at the time of the passing of the budget.

It will be my endeavor to have each department make an honest estimate of what they conscientiously deem is right and proper for their needs during the year, and when granted, I trust that you will assist me in keeping the amounts within the final appropriation.

The financial condition of the city December 31, 1902, submitted to me by the Auditor is as follows:

Funded Debt.

Water loan bonds	\$237,000 00	
Sewerage loan bonds	350,000 00	
School house bonds	200,000 00	
Town hall bonds	45,000 00	
	<hr/>	\$832,000 00

In the sinking fund to be applied to the payment of these bonds when they mature:

Water loan sinking fund	\$34,614 50	
Sewer loan sinking fund	90,871 08	
School Hall loan	19,007 03	
	<hr/>	144,492 61

Making the net bonded debt	\$687,507 39
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There is to be paid by the Treasurer to the account of school sinking fund	\$7,222 00	
Town Hall sinking fund,	1,537 65	
Water supply	733 37	
	<hr/>	\$9,493 02

This will be paid before the end of the fiscal year, January 31, 1903, and the total Sinking Funds at that time will probably be \$153,985.63, making the net bonded debt on February 1, 1903, about \$678,014.37.

Permanent Debt.

Borrowed on account of :

Stone Crusher	\$8,000 00	
Public Grounds	10,000 00	
Ell Pond Park	12,000 00	
Surface Drainage	10,000 00	
Central Fire Station	20,000 00	
New School Building	6,000 00	
High School Grounds	3,000 00	
	<hr/>	\$69,000 00

There have been loans authorized on account of appropriations made during the year 1902, which must be included in the tax levy of 1903. They are as follows :

Brown Tail Moth Extermination,	\$500 00	
Horse for Hose 3, Fire Department,	250 00	
Health Dept. Contagious Disease,	2,000 00	
Health Dept. Contagious Disease,	2,513 33	
Health Dept. Vaccination	200 00	
Health Dept. Compulsory Vaccination	1,000 00	
Fourth of July Celebration	500 00	
The Wells Drain, Franklin Street,	1,315 00	
Judgments against City	575 00	
School Department	1,200 00	
School Department	1,100 00	
Highway, gen'l repairs and maintenance	5,000 00	
	<hr/>	\$17,153 33

Our borrowing capacity under the charter, which exempts us from the provisions of the act limiting the indebtedness of cities to 2½% of the assessed valuation for the preceding three years is at the present time \$148,445 68

If we deduct loans authorized but not yet borrowed, amounting to 17,153 33

We have \$131,292 35

This is a very excellent showing but should be jealously guarded and only used when permanent improvements will have to be made. I am not in favor of the ordinary running expenses being paid by loans, but that they be met from the revenue which the city receives by taxation.

To summarize we have the following :

Permanent Debt.

Bonds	\$832,000 00	
Loans	69,000 00	
	<hr/>	\$901,000 00
Temporary loans in anticipation of taxes		\$119,521 65
Cemetery Trust Funds		8,734 00
Toothaker Fund		1,291 75
		<hr/>
Total Debt		\$1,030,547 40

ASSETS.

Cash on hand	\$18,538 98	
Sinking Funds	144,492 61	
Due from Commonwealth	2,766 87	
Uncollected from tax bills	4,498 98	
Uncollected taxes	140,497 81	
Uncollected sewer assessments	59,273 50	
Uncollected street sprinkling as- sessments	2,250 00	
Uncollected sidewalk assessments,	406 18	
	<hr/>	372,724 93
Net debt more than assets available		\$657,822 47

An increase over the year 1902 of our net debt of \$2,866.79

ASSESSING DEPARTMENT.

In the assessment of taxes we are to look for the means to meet the running expenses of the city. We have no control over this department. They act under the statutes

to fulfill the obligations placed upon them by their oath of office. All that the Executive can do is to appoint such citizens as he deems best qualified for the work, and the Board of Aldermen to confirm; but it lies in our power to make suggestions and for the Assessors to consider the same. I am of the opinion that for the present we have arrived at the limit of valuation that our citizens can conveniently stand upon their real estate. That being the fact what must be our remedy to provide the money for our increasing demands. It must be in the finding of more personal estate to be levied upon. There will be no perceptible increase in the real estate valuation during the coming year. I am opposed to a fictitious or inflated valuation. I think it more honest to have the taxation represent the cost to the city of carrying on its business, than by a stroke of the pen to raise valuations.

Much criticism has been made of our valuation, but in comparison with neighboring municipalities, I must admit that in many cases it is unwarranted. We may state for an example that Main street between Foster and Essex streets, is the most valuable for business purposes. The average assessed value is \$1.50 per foot as compared with other and nearby cities in similar conditions at \$3.00 per foot.

We will take Bellevue avenue as a fair sample of our best residential district. The average tax value is thirty cents a foot, where in an adjoining city in as desirable a locality it is fifty cents. As I have stated before in this address, it is not the individual house-holder who pays a large tax on what he receives in return from the city, but the complaint comes largely from that class who have received large tracts of land by inheritance and are unable to realize quickly upon the property; or it is from the other class who acquire property for speculative purposes and the increase is not as rapid as they desire.

The total Real Estate valuation,

May 1, 1902, was . . .	\$13,708,975 00
The total Personal Estate . . .	1,656,505 00
Total valuation, . . .	<u>\$15,365,480 00</u>

An increase of \$105,100 on real estate.

An increase of \$369,615 on personal.

In 1901 there were 3,248 dwellings. There were erected in 1902, 32, making a total of 3,280.

THE PUBLIC WORKS DEPARTMENT.

The Public Works Department in its many divisions of the public utilities is the most important for us to consider. This department controls the expenditures and management of the Highways, Water, Sewer, Surface Drainage, Parks, Street Lighting, City Hall, and nearly everything else that is not specifically provided for by the charter. I have been of the opinion for a number of years that our streets compare favorably with those of neighboring cities and towns, notwithstanding all that has been said to the contrary. We are improving their condition every year. Each year shows a gain in the number of streets macadamized, gutters paved, and granite crossings laid. All work of this character is in a way permanent expense for repairs. The improvements in our highways rest largely upon the amount appropriated. They cannot be had unless we pay the cost. It must be apparent to every observant citizen, that the first impressions that visitors have of a city are those of a surface nature, streets, sidewalks, parks. It is taken as a fact that you have good water. They do not see the sewer system; the excellent condition of your schools is a matter of hearsay, but good streets, paved gutters, stone crossings, and broad sidewalks, and in the residential streets the sidewalks lined with trees, are at once in evidence and appeal to the observer.

I would recommend a continuance of the policy of making specific repairs of streets by macadamizing, and that a small appropriation be made each year for paving in a thorough and permanent manner certain portions of Main, Essex, Franklin, and possibly other streets where the traffic is of a heavy nature. In the matter of sidewalks we have been very liberal, and the ordinance governing continuous sidewalks has been complied with in a very generous manner, much to the inconvenience of certain abutters. I would

recommend a careful consideration of the petitions presented under Section 4 of Chapter 21 of the Ordinances.

The sewer system is in good working order and maintains its reputation of having been well constructed, by the small amount it has cost to maintain it. All the work laid out by the previous Board has been completed excepting that of Richardson road, which was ordered and the means provided for its construction. There are now in operation 34.16 miles of sewer, and there are 2,094 buildings connected with the same, being a gain over last year of 64. There remain on the line of sewers 556 buildings unconnected.

The Water Division continues to show a good financial condition.

The Water Loan Bonded Debt is \$237,000 00

In the sinking fund to credit of

debt,	34,614 50
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Net water debt,	<u>34,614 50</u>	\$202,385 50
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The claim against the Commonwealth has not been adjusted as yet, but when received will materially lessen this amount. I am in favor of all expense of construction being met by a bond issue, and commend the plan adopted when old pipe is taken up and replaced by new and larger pipe to meet the demands for more efficient service, that the difference in price between the value of the smaller pipe and the larger be charged to construction.

A new main supply pipe is being laid to connect Wyoming avenue with Franklin street, following the foot of the hills on the west side of the city. It has been laid thus far to a point in Vinton street nearly opposite High street. With the usual appropriation of \$25,000 for maintenance and an issue of bonds of \$10,000 or \$15,000 for construction, this line can be built the coming year without interfering with the renewal of the weaker of the cement pipes with cast iron ones.

By so doing the number of breaks would be reduced and thus diminish the cost of maintenance. I recommend a continuance of this work as laid out by the Engineer and Superintendent of Public Works, and I further recommend that your Board take under immediate consideration the

question of the revision and reduction of the water rates, so that if deemed advisable by your Board the new rates may go into effect January 1, 1904. I make this recommendation because I believe that the financial condition of the Water Department warrants it, and also to relieve the citizens from what I consider an excessive tax for the use of water. The tax for water is equal to one-quarter of our real estate tax.

SURFACE DRAINAGE.

This is one of the most important matters before us this year. It has been thoroughly discussed and the citizens are fully informed of the conditions existing which have led to legislation to provide us with the means of satisfactorily carrying out a system of surface drainage, adopted by the Board of Aldermen. The act is as follows:

CHAPTER 445.

AN ACT to authorize the City of Melrose to incur indebtedness for the purpose of constructing a system of surface drainage.

Be it enacted as follows:

Section 1. The city of Melrose for the purpose of paying the cost of constructing and maintaining a system of surface drains and its appurtenances, is hereby authorized to issue from time to time, as may be required therefor, bonds, notes or script to an amount not exceeding one hundred thousand dollars: provided, however, that the amount of such bonds, notes or script issued during the current year, or in any succeeding year, shall not exceed twenty thousand dollars in any one year, and that all such issues shall be subject to the provisions of section forty-eight of chapter one hundred and sixty-two of the acts of the year eighteen hundred and ninety-nine. Such bonds, notes or script shall be designated, City of Melrose Surface Drainage Loan, Act of 1902, shall bear interest at a rate not exceeding four per cent. per annum, payable semi-annually, shall be payable at the expiration of such periods as the Board of Aldermen shall determine, not exceeding thirty years from the date of issue, and shall be signed by the treasurer and countersigned by the mayor of the city. They shall not be reckoned in determining the authorized limit of indebtedness of the city.

Section 2. All premiums received from the sale of bonds issued under authority of this act shall be paid into the sinking fund, which fund shall be established as provided in chapter twenty-seven of the Revised Laws.

Section 3. All moneys raised under the provisions of this act shall be expended by the Engineer and Superintendent of Public Works, under the direction of the mayor and subject to the provisions of chapter forty-nine of the Revised Laws relative to the construction and maintenance of sewers and drains, and chapter fifty of the Revised Laws relative to the assessment of betterments.

Section 4. This act shall take effect upon its passage.

The question of the authorization of issuing the bonds for the purposes mentioned in the act was on petition of one hundred legal voters as provided for in section 48 of the City Charter, submitted to the voters at the city election held December 9, 1902, as follows:

"Shall the City of Melrose issue bonds to the amount of twenty thousand dollars for the purpose of constructing and maintaining a system of surface drains and its appurtenances under Chapter 445 of the Acts of the General Court of Massachusetts of the year 1902, as authorized by the Board of Aldermen by an order numbered 1657, which was duly ordained by said Board on the thirteenth day of June, A. D. 1902, and duly approved by the Mayor."

It resulted in its acceptance by a vote of 932 in its favor and 477 against it. This became operative at once. The sections most needing attention are Otis, Elm and Franklin streets, Linwood avenue and the Melrose street brook. These sections should be given attention as soon as possible, as the act provides that the amount shall not exceed \$20,000 in any one year. I would recommend that another issue of \$20,000 be authorized during this year, not necessarily to be used, but to be available should occasion require. In connection with this system the disposition of the water in Ell and Spot Pond brooks demands our immediate attention. You are all aware of the difficulties we are laboring under in providing a proper outlet for the disposition of the large quantities of water flowing into and through the main brooks. A full and complete statement of the facts in the case was presented by my predecessor in his annual message

of 1902. The condition existing then remains the same today.

Some relief has been suggested by a report that will be made by the Metropolitan Water and Sewerage Board, acting under the following resolve, as passed by the legislature in June, 1902.

CHAPTER 112.

RESOLVE RELATIVE TO AN INVESTIGATION OF THE IMPROVEMENT OF SPOT POND BROOK BY THE METROPOLITAN WATER AND SEWERAGE BOARD.

Resolved, That the metropolitan water and sewerage board is hereby authorized and directed to investigate the condition of Spot Pond brook in Stoneham, Melrose and Malden and to report a plan for such improvements to the brook as will provide for the easy and natural flow to tide water of the water from Doleful pond and surrounding country turned into it by said board. The board shall take into consideration the whole question of the improvement of the brook, shall ascertain what troubles are to be remedied, and by what methods and needed improvements may be effected, and shall give public notice and a hearing to all persons interested. If the board finds that such plan and improvements are feasible and desirable, it shall recommend a plan of apportioning the expense for the improvements between the Commonwealth and cities and towns benefited, and the extent, if any, to which betterments should be imposed upon abutting owners. Said report shall be made to the general court before the fifteenth day of January in the year 1903. (Approved June 11, 1902.)

A number of hearings have been held at the office of the Water and Sewerage Board which were attended by the Mayor, members of the Board of Aldermen and citizens. What the report will recommend we do not know. They will make some recommendations, but whether it will be for the interests of Melrose to sustain their report or not will have to be decided when it is known what they recommend. I am of the opinion that we have rights in that main brook

to tide water, and under the act of 1869 and the order of the County Commissioners, we should maintain these rights, and if the report of the Metropolitan Water and Sewerage Commisioners does not give us the relief without an attending extraordinary expense, we should take such measures as are necessary under the aforesaid Act of 1869 and the County Commissioners' order. In connection with the surface drainage matter I would recommend that the Legislature be petitioned for an act to give the city authority to control the brooks and streams within the limits of the city.

CITY YARD AND STABLES.

I now call your attention to a matter which has been before preceding Boards of Aldermen, but which has not received favorable consideration. There is imperative need of a storage yard with stable and ample room for the storage of wagons, carts, sleds, snow plows, tools, cement, etc. With the large amount of work required by the Highway, Sewer and Water Division, it is absolutely necessary for a proper and economical method of carrying on their work that a place should be provided where the articles used in their work can be properly cared for. At the present time the carts, snow plows, utensils, etc., are scattered all over the city. No proper system can be devised under the present conditions of keeping track of the same, and the efficiency of the department is hampered by the lack of such a place. I would recommend that you give this matter your early consideration.

We have now 5.2 miles macadamized streets.

.7 miles brick sidewalks.

33.6 miles concrete sidewalks.

510 feet granolithic sidewalks.

4.1 miles straight granite curbing.

2.5 miles curved granite curbing.

4.6 miles paved gutters.

3 brick crossings.

75 granite crossings.

106 concrete crossings.

An earnest effort should be made this year to obtain from the Commonwealth the Boulevard as recommended by the Metropolitan Park Commissioners, connecting the Lynn Woods with the Fells. We have complied with the suggestion made by the Park Commissioners in procuring land on the north and west side of Ell Pond, and for which we have incurred an indebtedness of \$12,000, on which we are paying interest, and also have lost the income that would naturally come from taxes on the land taken.

CHARITY DEPARTMENT.

The needs of this department have not materially increased during the year. The poor have been well taken care of and the efficiency of the Pratt Farm has been well kept up. There has been considerable expense for sick cases, otherwise the calls upon the department have been less than formerly. The fuel famine, however, has proved a serious drain upon its appropriation. Through the efforts of one of our citizens, this department has been enabled to supply coal to the very poor, when it was impossible to purchase it from the local dealers. The expenses of this department will be materially lessened after this year, as the Commonwealth will assume the entire care and cost of support of the insane, January 1, 1904. This will be quite a relief, as this expense is one-third of the total appropriation of this department.

The relative rank of the cost of support, amount per capita:

Melrose, \$.76.

Middlesex Co., \$.78 6-10.

Commonwealth of Massachusetts, \$.90 1-10.

Number supported and relieved per 1,000 inhabitants, census of 1900:

Melrose, 25.

Middlesex Co., 28 8-10.

Commonwealth of Massachusetts, 28.7-10.

MELROSE HOSPITAL.

This institution is not under the control of the city, yet at the same time the city is represented in its management, as by vote of the Trustees, the Chairman of the Overseers of the Poor was made ex-officio a member of the Executive Board, and for a number of years we have made a contract with the hospital for the reception, care and treatment of persons who by misfortune or poverty require relief, and a sum has been appropriated annually for this purpose. I desire to give it my heartiest endorsement, and from an intimate knowledge of the character of the work done, especially to the poor and those unable to pay for hospital treatment, we can well afford to be generous to the Melrose Hospital. What is contributed by the city by appropriation for services rendered in the case of city patients does not begin to repay the hospital, taking into consideration the average cost of patients, and it is mainly supported by the generosity of our citizens.

I would recommend that the usual appropriation be made for this purpose.

BOARD OF HEALTH.

The amount of labor placed upon this department by the statutes of the Commonwealth and the ordinances of the city can be hardly realized by the average citizen, or competently dealt with in this address, and the many perplexing questions involved in the effort of the Board of Health to carry into effect the laws governing their department, brings upon them many criticisms, which are oftentimes unwarranted. We have passed through a very trying and expensive experience with smallpox during the year. We may well congratulate ourselves that no serious epidemic arose from the few cases. We are in better condition to cope with this dread disease by reason of the prompt attention given it by the Board of Health and Board of Aldermen of last year. We have had to pay dearly for our experience, but there seems to be now no reason to fear that expenses will be as large another year, if the disease should break out again.

I would call to your attention the recommendation of the Board of Health last year as to the needs of Medical Inspection in the public schools. I would recommend that two public lavatories be built for the accommodation of the public, one at Melrose Highlands, near the junction of Main and Franklin streets, and one in the centre of the city.

I would also recommend that an ordinance be passed, appointing a city physician who shall attend to the poor and such other departments as may need his services, the compensation therefor to be borne from the appropriations granted to the Charity and Health departments.

PUBLIC SCHOOLS.

Our public schools continue to reflect great credit on their management, and while the appropriation therefor is fully one-third of our tax levy, yet the results that accrue from a good education show that it is a profitable investment. We are fortunately well equipped for the work of educating our children. The school buildings are among the best in the state, our superintendent and teachers diligent and painstaking. We may well consider whether or not the child is not burdened by a diversity of studies, which to many of us seem immaterial to his mental equipment, but the system in vogue is one that has been developed and established by those who make a special study of education, and perhaps it is futile for laymen to criticise. There has been one great advance made in my mind in the establishing of the commercial course in the High School, and as a result of this course we find that while the rate of increase in average membership for all the schools for the year 1902 over the year 1899 (the last year of the town government) is 9.9-10%, the rate of increase in average membership of the High School during the same period is 48.6-10%.

This is due largely to the desire of the scholars to become in a measure ready for good paying positions when they graduate from the High School, and this brings us back to the financial question again. If the same education requisite to find employment at once can be furnished by our High School instead of the scholars attending a commercial col-

lege in Boston at the large expense necessary, are we not doing right in providing the means for so doing?

The school committee are chosen by the people, to whom they are responsible. We simply provide them with the funds for the purpose of carrying on the work of their department, and as they are chosen for their peculiar fitness for the duties of their office, we should give careful and serious consideration to their recommendations.

PUBLIC LIBRARY.

The increase in growth of the Public Library and the limitations to its further development in its present quarters has been presented to previous boards. Through the generosity of Mr. Carnegie aided by subscriptions from our own citizens, which already amounts to \$3,600, and it is hoped will exceed \$5,000, I am pleased to announce that a contract has been signed by my predecessor for a building to be erected before November 1, 1903, on the old High School lot, on Emerson street. The building will be well adapted for the purposes intended, and its design was selected by my predecessor with the assistance of an advisory committee of ten citizens, and has the unanimous approval of the Library Trustees. It is to be constructed of light brick, with granite and lime stone trimmings. It will have fire-proof stack rooms and will be presented to the city ready for occupancy, exclusive of the necessary furniture and library fittings, and when completed cannot fail to be appreciated and be a source of pride and satisfaction to the people of our city.

TOWN HISTORY.

I am pleased to announce that the History of Melrose, authorized by vote of the Town in 1898 is now completed and in the hands of the printer. It has been my privilege to inspect the advance sheets of the work, and I desire to express my sincere appreciation of the conscientious and indefatigable labor with which the author, Elbridge H. Goss, Esq., has prepared this valuable history of Melrose.

POLICE DEPARTMENT.

The management of this department is to be commended. Our city is well protected and the officers attend to their duties faithfully. We have no criminal element to look after. Most of the arrests made have been for drunkenness. The number of arrests for drunkenness during the year 1902 was 72, being 3 less than the previous year. There is need in this department of an ambulance, and I desire that you give this your consideration.

FIRE DEPARTMENT.

While there has been no fire of any magnitude to tax the resources of this department, yet they must be credited with vigilance and alacrity in attending to such alarms as have been given, and by their prompt response to the call have lessened the risks of a serious conflagration.

CONCLUSION.

In conclusion permit me to say that from a personal as well as an official acquaintance with the members composing the Board of Aldermen for the year 1903, I am convinced that it will be your earnest endeavor to meet the questions that will come before your Board with an honest and progressive spirit, bearing in mind at all times that the people have placed you in the responsible office you assume because they had confidence in your ability, honesty and integrity. The experience of years of service in municipal affairs that have come to many of us will be beneficial in shaping legislation and enable us to act intelligently and without delay upon matters that will come before us.

I ask your hearty co-operation and desire that we act in harmony in promoting the welfare of our citizens, so that when we have discharged the duties that have been entrusted to us we may merit their approbation.

Government of the City of Melrose.

1903.

MAYOR.

SIDNEY H. BUTTRICK.

PRESIDENT OF THE BOARD OF ALDERMEN.

AARON HILL, JR.

ALDERMEN AT LARGE.

EUGENE H. MOORE,	.	.	.	.	.	Term expires January 1905
ALBERT A. DAY,	.	.	.	.	.	" " " 1905
FRANK H. TORREY,	.	.	.	.	.	" " " 1905

CHARLES J. BARTON,	.	.	.	.	.	Term expires January 1904
ARTHUR H. FOLGER,	.	.	.	.	.	" " " 1904
CLARENCE T. FERNALD,	.	.	.	.	.	" " " 1904
GEORGE E. BERRY,	.	.	.	.	.	" " " 1904

WARD ALDERMEN.

Ward 1.	CHARLES ELWELL FRENCH.	WILLIAM A. MORSE.
Ward 2	OLIVER B. MUNROE.	WARREN S. TOWNER.
Ward 3.	*DANIEL E. GIBSON.	ALBERT B. FRANKLIN.
	†JOHN C. F. SLAYTON.	
Ward 4.	WILLIAM ANDREWS DOLE.	JULIAN C. WOODMAN.
Ward 5.	EDWARD S. PAGE.	LOWELL F. WENTWORTH.
Ward 6.	AARON HILL, JR.	WILLIAM H. WOODMAN.
Ward 7.	ANDREW J. BURNETT.	EBEN M. TAYLOR.

CLERK OF THE BOARD.

W. DEHAVEN JONES, City Clerk.

*Resigned.

†Elected to fill vacancy.

Standing Committees of the Board of Aldermen.

Accounts and Surety Bonds.

Aldermen *WILLIAM H. WOODMAN, †WILLIAM A. MORSE, FRENCH, BARTON,
PAGE and DOLE.

Buildings.

Aldermen *GIBSON, BURNETT, TAYLOR, TOWNER and MORSE.

City Clerk and Cemetery.

Aldermen BERRY, FOLGER, TAYLOR, MORSE and DAY.

Claims.

Aldermen MUNROE, FRANKLIN, PAGE, FERNALD and J. C. WOODMAN.

Elections and Returns, Printing and Supplies.

Aldermen TORREY, BERRY, *GIBSON, †JOHN C. F. SLAYTON, WENTWORTH
and JULIAN C. WOODMAN.

Finance.

Aldermen BARTON, FRENCH, FRANKLIN, BURNETT, TOWNER, DOLE and
TAYLOR.

Fire Department, Electric and Telephone Wires.

Aldermen MOORE, BURNETT, FOLGER, BERRY and WENTWORTH.

Highways, Sewers, Water and Public Grounds.

Aldermen FERNALD, MOORE, FOLGER, BERRY, MUNROE, TORREY and
TAYLOR.

• Resigned. † Appointed to fill vacancy.

Nominations and Resolutions.

Aldermen DOLE, PAGE, FERNALD, FRENCH and WILLIAM H. WOODMAN.

Ordinances, Rules, Orders and Legislative Matters.

Aldermen PAGE, J. C. WOODMAN, MUNROE, DAY and TORREY.

Police Department and Licenses.

Aldermen TOWNER, FERNALD, *GIBSON, †JOHN C. F. SLAYTON, W. H. WOODMAN and DOLE.

Public Charities.

Aldermen FRANKLIN, DAY and TORREY.

Public Health.

Aldermen WENTWORTH, FRENCH and MORSE.

Public Schools and Public Library.

Aldermen FRENCH, BARTON, MUNROE, DAY and J. C. WOODMAN.

Solicitor and Collector.

Aldermen FOLGER, *GIBSON, †JOHN C. F. SLAYTON, BERRY, W. H. WOODMAN and WENTWORTH.

Special Committee on Settlement with Metropolitan Water Board

Aldermen FRANKLIN, W. H. WOODMAN, BARTON, MUNROE and WENTWORTH.

State, Military Aid and Soldiers' Relief.

Aldermen DAY, BURNETT and WILLIAM H. WOODMAN.

Street Railways and Public Lighting.

Aldermen BURNETT, MOORE, FOLGER, FRANKLIN and TOWNER.

Treasury and Assessors.

Aldermen JULIAN C. WOODMAN, PAGE, FERNALD, MOORE and *GIBSON, †JOHN C. F. SLAYTON.

*Resigned. †Appointed to fill vacancy.

CITY OFFICERS.

City Clerk.

W. DEHAVEN JONES.

Assistant City Clerk and Clerk of Committees.

VICTOR C. KIRMES.

City Treasurer.

WILLIAM R. LAVENDER.

City Collector.

JAMES W. MURRAY.

City Auditor.

EDWIN C. GOULD.

Engineer and Superintendent of Public Works.

W. DABNEY HUNTER.

Mayor's Clerk.

EMMA L. LEIGHTON.

City Solicitor

FRANK L. WASHBURN.

Chief of Fire Department.

JOSEPH EDWARDS.

Chief of Police.

FRANK M. McLAUGHLIN.

Inspector of Buildings.

W. AUGUSTUS GOODNO.

Inspector of Plumbing.

JOHN T. BARKER.

Inspector of Milk and Vinegar.

WILLIAM S. BRIRY.

Inspector of Animals, Provisions and Food Products.

†WILLIAM H. DOLE.

†FRANK P. STURGES.

Sealer of Weights and Measures.

WILLIAM L. PIERCE.

Agent State and Military Aid and Soldiers' Relief.

JOHN LARRABEE.

Burial Agent.

ALBERT L. CARLETON.

Assessors.

FRANK R. UPHAM, Chairman.

WILLIAM MORSS.

L. FRANK HINCKLEY.

Assistant Assessors.

MYRTON G. WOODBURY.

ALDEN B. SMITH.

THOMAS SMALLWOOD.

Board of Health.

PAUL, H. PROVANDIE, Chairman.

JOSEPH H. ROBINSON.

JOHN T. TIMLIN.

Overseers of the Poor.

THOMAS M. GOGIN, Chairman.

WILLIAM S. SOULE.

MATILDA E. STANTIAL

Matron Pratt Farm.

MRS. CHRISTIE CHANDLER.

School Committte.

FRED L. WOOD,	.	.	.	.	.	.	.	Term expires 1904
EDWARD B. MARSH,	.	.	.	.	.	.	.	" " "
BESSIE B. DEARBORN,	.	.	.	.	.	.	.	" " "
WILLIAM D. STEWART,	.	.	.	.	.	.	.	" " 1905
EDWARD W. FRENTZ,	.	.	.	.	.	.	.	" " "
SARAH A. DAY,	.	.	.	.	.	.	.	" " "
SUSAN F. FLANDERS,	.	.	.	.	.	.	.	" " 1906
GEORGE H. HILL,	.	.	.	.	.	.	.	" " "
JOHN E. MARSHALL,	.	.	.	.	.	.	.	" " "

WILLIAM D. STEWART, Chairman.

EDWARD B. MARSH, Secretary.

†Deceased. †Appointed to fill vacancy.

CITY OF MELROSE.

Sinking Fund Commissioners.

ROYAL P. BARRY,	.	.	.	.	.	Term expires 1906
JOHN W. FARWELL,	.	.	.	.	.	" " 1905
DANIEL RUSSELL,	.	.	.	.	.	" " 1904

Trustees of the Public Library.

CHARLES C. BARRY	.	.	.	.	.	Term expires 1906
EDWARD M. MUNYAN,	.	.	.	.	.	" " "
*CHARLES A. PATCH,	.	.	.	.	.	" " 1905
†ELBRIDGE H. GOSS,	.	.	.	.	.	" " "
MARY L. CHARLES,	.	.	.	.	.	" " "
MARIA L. CHAPIN,	.	.	.	.	.	" " 1904
NEIL A. DIVVER,	.	.	.	.	.	" " "

Cemetery Committee.

JOHN P. DEERING, Chairman.	OSCAR F. FROST.
LEWIS HENRY KUNHARDT.	EDWIN C. GOULD, Clerk.
ROSCOE A. LEAVITT, Superintendent of Cemetery.	

Registrars of Voters.

HERBERT A. MARSH, Chairman,	.	.	.	.	Term expires 1906
VICTOR C. KIRMES,	.	.	.	.	" " 1905
EDWIN L. CRAGIN,	.	.	.	.	" " 1904

W. DEHAVEN JONES, City Clerk, ex-officio.

Engineers of the Fire Department.

JOSEPH EDWARDS, Chief.	
THOMAS J. HAWKES.	WILLIAM F. SIMPSON.

Measurers of Wood and Bark, Weighers of Hay and Coal.

†SETH E. BENSON.	GEORGE GOODWIN.	CHARLES B. GOSS.
FRED H. GOSS.	FRANK B. NEWELL.	CHARLES L. WALKER.
OTIS W. PIERCE.	WILLIAM L. PIERCE.	GEORGE M. HALL.

Fence Viewer.

CHARLES F. WOODWARD.

Field Driver.

HERBERT W. CHANDLER.

Pound Keeper.

HERBERT W. CHANDLER.

*Resigned. †Elected to fill vacancy. ‡Deceased.

CITY OFFICERS.

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Police Officers.

PERMANENT FORCE.

FRANK M. McLAUGHLIN, Chief.
OSBORNE E. DROWN.
WILLIAM A. CASWELL.
REDFORD M. RAND.
WILLIAM C. MCCARTHY.
LOUIS B. HEATON.

GEORGE E. FULLER.
HARRY BROWN.
ALLSTON H. PINEO.
WILLIAM H. DOHERTY
CHRISTOPHER B. THOMPSON.
FRANK N. PIERCE.

SPECIAL OFFICERS.

ELVIN C. SLOCOMB.
PATRICK F. MURRAY.
JAMES H. MAINE.
OSCAR H. LOWE.
HARRY S. ROBERTSON.
ARTHUR L. BRIGHAM.
EDGAR E. SHERBURNE.

M. JAMES HANLEY.
JOHN J. HINDS.
A. WILBUR LYNDE.
JOHN H. WING.
ISAAC GORMAN.
HERBERT W. CHANDLER.
JOHN H. THYNG.

CONSTABLES.

GEORGE W. BURKE.
WILLIAM L. PIERCE.

FRANK M. McLAUGHLIN.
OSBORNE E. DROWN.

Bail Commissioner.

SIDNEY H. BUTTRICK.

Civil Service Commissioners.

GEORGE H. DEARBORN.
W. DeHAVEN JONES, Clerk.

WILLIAM A. DOLE.

ELECTION OFFICERS.

Ward 1.

D. FRANK STEARNS, Warden.
JUSTIN E. DUTTON, Dept. Warden.
CORYDON W. HARLOW, Clerk.
JOHN W. NOWELL, Dept. Clerk.
FRED A. HOUDLETTE, Inspector.
FREDERICK A. ELLMS, Dept. Insp.

WM. H. GREENLEAF, Insp.
SIMEON CRAGIN, JR., Dept. Insp.
CHAS. F. GOURLEY, Insp.
JOHN H. ADDISON, Dept. Insp.
MICHAEL D. REARDON, Insp.
FRANCIS N. BEMIS, Dept. Insp.

Ward 2.

ORANGE H. COOK, Warden.
CALVIN W. SAWYER, Dept. Warden.
AUBREY W. DUNTON, Clerk.
RUFUS D. KILGORE, Dept. Clerk.
FRANK E. MORTON, Inspector.
ALDEN B. SMITH, Dept. Inspector.

GEORGE W. STINSON, Insp.
SAMUEL LEAR, Dept. Inspector.
GEORGE W. BURKE, Inspector.
JAMES A. CRAWFORD, Dept. Insp.
FRANK L. TERWILLEGER, Insp.
JOHN SIMONDS, Dept. Inspector.

Ward 3.

FRANK TOWLE, Warden.
F. P. BOWDEN, Dept. Warden.
OTIS W. PIERCE, Clerk.
CHARLES H. KING, Dept. Clerk.
PETER J. CURRAN, Inspector.
GEORGE W. VAN HORN, Dept. Insp.

CHARLES H. ROCKWOOD, Inspector.
CLIFTON A. PENDLETON, Dept. Insp.
JOHN J. KEATING, Inspector.
MILO N. ROBBINS, Dept. Inspector.
STEPHEN A. LOVEJOY, Inspector.
CHASE C. WORTHEN, Dept. Inspector.

Ward 4.

WALTER H. FLANDERS, Warden.
BYRON G. MORGAN, Dept. Warden.
CLARENCE P. HOLDEN, Clerk.
GEORGE E. HYDE, Dept. Clerk.
FRANK A. FERNALD, Inspector.
WILLIAM P. LIBBY, Dept. Inspector.

CURTIS S. GORDON, Inspector.
CHARLES GARDNER BARRY, Dept. Insp.
CHARLES W. BUTTRICK, Inspector.
CHARLES A. PAGE, Dept. Inspector.
HAROLD P. WATERHOUSE, Inspector.
EDWARD E. BABB, Dept. Insp.

ELECTION OFFICERS.

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Ward 5.

MERTON G. WOODBURY, Warden.
WM. L. KERSHAW, Dept. Warden.
GEORGE H. DEARBORN, Clerk.
JAMES P. SIMPSON, Dept. Clerk.
OTIS K. PHINNEY, Inspector.
SAMUEL DEARBORN, Dept. Inspector.

THOMAS J. HAWKES, Inspector.
JOHN M. HAMLIN, Dept. Insp.
FRED L. PUTNAM, Inspector.
BENJ. F. STAFFORD, Dept. Insp.
JOHN KEEFE, Inspector.
GEORGE B. CRANE, Dept. Insp.

Ward 6.

M. D. VAUGHN, Warden.
J. SIDNEY HITCHINS, Dept. Warden.
PETER J. LYNCH, Clerk.
WILLIAM J. DUFFY, Dept. Clerk.
HARRY M. EASTMAN, Inspector.
B. E. LOVEJOY, Dept. Insp.

STEPHEN C. DEERING, Inspector.
JONATHAN H. ATKINSON, Dept. Insp.
GEORGE H. TOWNE, Inspector.
FRANK H. GOODWIN, Dept. Insp.
THOMAS D. BAYNE, Inspector.
GEORGE B. GROTTENDICK, Dept. Insp.

Ward 7.

GEORGE A. BAILEY, Warden.
ALBERT A. DADLEY, Dept. Warden.
JOHN J. McCULLOUGH, Clerk.
JOHN J. BUCKLEY, Dept. Clerk.
WALTER B. COPELAND, Inspector.
WILLIAM F. RUSSELL, Dept. Inspector.

*WILLIAM CORNER, Inspector
JAMES R. DONAHER, Dept. Inspector.
THOMAS SMALLWOOD, Inspector.
JOHN C. FLATLEY, Dept. Inspector.
CHARLES F. DOHERTY, Inspector.
EDMUND FAHY, Dept. Inspector.

*Deceased.

Fourth Annual Report

OF THE

Engineer and Superintendent

OF THE

PUBLIC WORKS DEPARTMENT,

CITY OF MELROSE,
MASS.,

FROM FEBRUARY 1, 1903 TO JANUARY 31, 1904,

W. DABNEY HUNTER,
Engineer and Superintendent of Public Works.

MELROSE:
THE A. W. DUNTON PRINTING CO., PRINTERS.
1904.

ORGANIZATION.

1903.

HON. SIDNEY H. BUTTRICK,
Mayor.

W. DABNEY HUNTER,
Engineer and Superintendent.

EMMA L. LEIGHTON,
Stenographer.

WILLIAM H. MARTIN,
Bookkeeper.

A. J. WAGHORNE,
Assistant in charge of Engineering Division.

JAMES MARSHALL,
Assistant in charge of Highway Division.

JAMES McTIERNAN,
Assistant in charge of Water Division.

BARTLEY MALONEY,
Assistant in charge of Sewer and Drain Division.

Public Works Department.

To His Honor the Mayor, Sidney H. Buttrick:

DEAR SIR:—I have the honor to submit to you the Fourth Annual Report of the Public Works Department of the City of Melrose, for the fiscal year ending January 31, 1904.

I shall endeavor to condense as much as possible the matters to be treated, and at the same time to give the more essential parts in detail.

PUBLIC WORKS OFFICE

The work in this office continues to increase each year, as will appear from the summary given below:

Permits to open and occupy public streets	119
Orders of the Board of Aldermen attended to or reported on	58
Contracts written and made: water pipe and specials, cement, sewer brick, sidewalk brick, granite cover- ing stones, gates and hydrants, sewer castings, curbstone and flagging, concrete, street watering, collection of ashes, delivery of water pipe, driving piles, ventilating Aldermanic Chamber and plumb- ing Warren school house	15
Private sewer estimates made	55
Sidewalk estimates made	35
Water estimates made, laying, cleaning and repairing	105
Street watering accounts assessed and certified to the Board of Assessors	1455
Water bills made out	3735
Certificates of refunds made	106
Number of collections made	701
“ “ rebates paid	140

STATEMENT OF APPROPRIATIONS AND EXPENDITURES.

Appropriations:

Clerical service	\$500 00	
Contingent	300 00	
Board of horse, etc.	300 00	
Board of horse, etc., transferred as per Order No. 2347	11 93	
Telephone service	60 00	
	<hr/>	\$1,171 93

Expended:

Clerical service—expended, \$468 00		
Transferred as above	11 93	
	<hr/>	\$479 93
Contingent—books, printing and sta- tionery	274 00	
Board of horse, etc.	311 93	
Telephone service	59 14	
	<hr/>	\$1,125 00
Balances in treasury:		
Clerical service	\$20 07	
Contingent	26 00	
Telephone service	86	
	<hr/>	46 93

WATER DIVISION.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Appropriation—maintenance and reconstruction	\$25,000 00
Bond issue—Order No. 2071, Board of Aldermen	15,000 00
Balance from bond issue of 1902	697 71
Collections paid to Treasurer by W. D. Hunter	1,814 35
Transfers for stock received from other divisions	170 24
Stock balance, February 1, 1903	2,111 27
Stock on hand, commissioners' stock not in- cluded in previous reports	6,794 58
	<hr/>
Amount carried forward,	\$5,1588 15

Amount brought forward,		\$51,588 15
Expended:		
For relay (see table No. 3)	\$16,709 70	
For general maintenance and invoices (see page 52)	4,231 89	
For inside services and charges (see page 53)	1,473 45	
For outside services, maintenance (see page 52)	2,120 08	
For main lines, maintenance (see page 53)	1,206 25	
For construction (see table No. 4)	15,297 56	
Balances in treasury:		
Construction account	\$400 15	
Maintenance account	3,934 91	
	<hr/>	4,335 06
Stock balance (see page 54)	6,214 16	
	<hr/>	\$51,588 15
		\$51,588 15

NOTE: For detail of expenditures see tables referred to.

FINANCIAL STATEMENT.

[For the fiscal year ending January 31, 1904, not including the 1904 rates collected in January, 1904, (\$4,402.37)]

DR.

To cash on hand Feb. 1, 1903	\$50 04	
" 1902 water rates collected in 1903,	1,140 12	
	<hr/>	\$1,190 16
" 1903 summons collected in 1903,	\$96 20	
To 1903 water rates collected in 1903,	51,253 38	
	<hr/>	51,349 58
To sundry collections made by W. D. Hunter:		
New services (38)	\$383 07	
Services renewed (38)	427 63	
Services cleaned, (82)	266 99	
	<hr/>	
Amounts carried forward,	\$1,077 69	\$52,539 74

Amounts brought forward, . . .	\$1,077 69	\$52,539 74
To thawing services (12) . . .	37 30	
Repairing services (38) . . .	102 34	
Sealing fixtures, (7) . . .	6 31	
Sale of stock, . . .	72 16	
On and off water (199) . . .	199 00	
“ “ “ “ for non payment (8) . . .	16 00	
Junk . . .	298 58	
Sundries . . .	4 97	
	<hr/>	1,814 35
To collected by Treasurer from other divisions of the Public Works Department, . . .		170 24
“ collected by Treasurer from Commonwealth of Massachusetts for water sold as provided by Sect. 3 of Chapt. 392 of the Acts of 1898,		293 38
		<hr/>
Total . . .		\$54,817 71

CR.

By cash paid Treasurer (J. W. Murray) water rates 1902 . . .	\$1,020 91	
By cash refunded sundry persons 1902 . . .	169 25	
	<hr/>	\$1,190 16
By cash paid Treasurer (J. W. Murray) summons 1903 . . .	93 00	
By cash paid Treasurer (J. W. Murray) water rates 1903 . . .	50,840 91	
By cash refunded sundry persons 1903 . . .	373 44	
	<hr/>	\$51,307 35
By cash paid Treasurer (W. D. Hunter) sundries 1903 . . .	1,814 35	
By amount collected by Treasurer from other divisions of the Public Works Department . . .	170 24	
	<hr/>	
Amount carried forward, . . .	\$54,482 10	

Amount brought forward	\$54,482 10	
By amount collected by Treasurer from Commonwealth of Massa- chusetts for water sold as pro- vided by Sec. 3, Chap. 392 of the Acts of 1898	293 38	\$54,775 48
By cash on hand Feb. 1, 1904 (J. W. Murray) (summons \$3.20, water rates \$39.03)		\$42 23

STATEMENT FOR SINKING FUND.

DR.

To stock balance as per last report	\$2,111 27	
“ “ “ of Water Commissioners	6,794 58	
To total collections for year ending January 31, 1904	\$54,767 67	
Less refunds paid sundry persons	542 69	
	<u>54,224 98</u>	
		\$63,130 83

CR.

By assessment paid Commonwealth of Massachusetts:		
Sinking fund	\$3,630 11	
Interest	\$11,243 27	
Cost of maintenance	2,941 96	
	<u>\$17,815 34</u>	
By amount transferred to Engineering	1,300 00	
By interest paid	9,780 00	
By cost of relaying pipes	16,709 70	
“ “ “ maintenance	9,031 67	
By stock balance	6,214 16	
	<u>60,850 87</u>	
Surplus		\$2,279 96

NOTE: To check with Auditor's balance (\$6,936.77), add cash on hand, J. W. Murray, \$42.23, and subtract January receipts, \$4,402.37.

Cost of construction to January 31, 1904:

Cost as per report 1902	\$438,988 26
“ of services 1903	610 01
“ “ extensions 1903	2,117 31
Improvement to plant 1903	12,570 24
	<hr/> \$454,285 82

SUMMARY OF FIXTURES AND STATEMENT OF WATER SUPPLIED
February 1, 1904.

	Rated.	Metered.	Public Buildings.	Totals.
Families	3411	93	.....	3504
Boarding Houses	2	3	.....	5
Stores and Shops	134	78	.....	212
Faucets	9244	549	142	9935
Water Closets	3460	242	140	3842
Bath Tubs	2209	87	3	2299
Use of Water Closets	80	3	.....	83
Use of Bath Tubs	20	.....	.....	20
Urinals	4	14	23	41
Fountains	3	.....	7	10
Sill Cocks	1084	18	14	1116
Horses	309	206	8	523
Cows	36	3	2	41
Hose	1107	1	14	1122
Boilers	2	12	20	34
Motors	1	4	.....	5

NOTE : — This includes the fixtures in 108 full houses.

Number of water takers	3796
“ “ vacancies	290
“ “ fire hydrants	280
“ “ stand-pipes (for street sprinkling)	30
“ “ “ (for cemetery)	25
“ “ meters	100
“ “ gates on mains	415
“ “ miles of cement mains	18.84
“ “ “ “ cast iron mains	28.57

The purchase of stock was by bids, either advertised for or solicited. Water pipe and specials were purchased of U. S. Cast Iron Pipe and Foundry Co.; gates and hydrants of M. J. Drummond & Co.; and stops and brass goods of Scrannage Brothers.

CANVASS OF BIDS FOR FURNISHING CITY OF MELROSE, PUBLIC WORKS DEPARTMENT,
WITH CAST IRON PIPE AND SPECIALS.

Opened March 21, 1903.

PUBLIC WORKS DEPARTMENT.

41

ITEMS.		U. S. Cast Iron Pipe Foundry Co., Philadelphia, Penn.		F. A. Houdlette & Son, 139 Milk Street, Boston.		Chas. Millar & Son Co., Utica, N. Y.		M. J. Drummond & Co., 192 Broadway, N. Y.		Camden Iron Works, Camden, N. J.	
		Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
	Quantities in tons of 2,240 lbs.										
4"	11.786	\$34.95	\$ 411.92	\$35.85	\$ 422.53	\$37.52	\$ 442.21	\$37.20	\$ 438.44	\$38.90	\$458.48
6"	92.857	34.95	3,245.35	35.85	3,328.92	36.40	3,379.99	36.10	3,352.14	37.90	3,519.28
8"	47.143	34.95	1,647.65	35.85	1,690.08	36.40	1,716.01	35.50	1,673.58	37.90	1,786.72
10"	42.857	34.95	1,497.85	35.85	1,536.42	35.28	1,511.99	35.00	1,500.00	37.70	1,615.71
12"	268.750	34.95	9,392.81	34.85	9,365.94	35.28	9,481.50	35.00	9,406.25	37.70	10,131.88
Reducers	1.000	60.00	60.00	61.60	61.60	61.60	61.60	61.60	61.60	78.00	78.00
Specials	5.000	83.00	415.00	84.00	420.00	61.60	308.00	61.60	308.00	88.00	440.00
Totals	463.993		\$16,670.58		\$16,825.49		\$16,901.30		\$16,740.01		\$18,030.07

Contract awarded to U. S. Cast Iron Pipe Foundry, Philadelphia, Penn.

CANVASS OF BIDS FOR FURNISHING CITY OF MELROSE, PUBLIC WORKS DEPARTMENT, WITH FIFTY-FIVE
EXTRA HEAVY HIGH PRESSURE, BELL END WATER GATES AND TWELVE FULL 6" HYDRANTS.

Opened March 21, 1903.

Items.	Sweet & Doyle, 238 Franklin St., Boston.		Rudloe Valve M'fg Co., 150 High St., Boston.		M. J. Drummond & Co., 192 Broadway, N. Y.		Norwood Engineer- ing Co., Florence, Mass.		Darling Pump & M'fg Co., limited, Williamsport, Penn.		Coffin Valve Co., Neposset, Mass.		Rensselaer M'fg Co., Troy, N. Y.		
	Size	No.	Price.	Am't.	Price.	Am't.	Price.	Am't.	Price.	Am't.	Price.	Am't.	Price.	Am't.	
	6"	36	\$11.00	\$396.00	\$11.50	\$414.00	\$10.00	\$360.00	.....	\$11.78	\$424.08	\$11.90	\$428.40	\$11.75	\$423.00
	10"	4	17.90	71.60	24.50	98.00	22.40	89.60	.....	25.23	100.92	27.00	108.00	24.00	96.00
	12"	15	32.40	486.00	31.00	465.00	33.00	495.00	.....	32.12	481.80	31.75	476.25	33.00	495.00
	Totals	55		\$953.60		\$977.00		\$944.60	.....		\$1,006.80		\$1,012.65 or 950.00		\$1,014.00 or 939.00
Hydrants.															
	Size	No.													
	6"	12	\$45.00	\$540.00	\$43.50	\$522.00	\$31.55	\$378.60	\$38.20	\$458.40	.....	\$49.00	\$588.00	\$33.00	\$396.00

Contract awarded to M. J. Drummond & Co., 192 Broadway, New York.

Rates and Meters.

Much has been said in relation to the high rate paid for water in Melrose, and in regard to the adoption of meters as a mode of reducing it. When compared with other cities similarly situated, the rate is not high, nor would the introduction of meters diminish it, but, as stated in previous reports, would increase the same from 10 to 20 per cent.

It was advocated by the department that the maximum price paid for water by fixture be reduced, and the minimum price paid for water by meter be increased, so that they would be one and the same. It was not advocated that the charge for any particular fixture be reduced, but that the clause relating to the maximum rate charged in any one family be changed; but when the matter came before the Board of Aldermen, they decided to reduce the price charged for closet and bath-tub in private houses from \$4.00 to \$3.00, which will make a difference in the annual revenue of about \$5000 or \$6000, while the reduction recommended would make a difference of only about \$1000. This reduction made by the Board of Aldermen will seriously retard the renewing of old cement pipes with cast iron, as after paying the cost of maintenance, interest, and the assessment to the Commonwealth, there will be left only about \$6000 or \$7000; for it must be remembered that the assessment levied by the Commonwealth increases annually in proportion to their expenditures, and whereas in the year 1899, the last year of the Town, this assessment was only \$4921.63, this year it amounts to \$17,815.34, and will continue to increase each year until the Metropolitan Water Board have completed their works, and is estimated to be in 1904, \$20,400; in 1905, \$21,400; in 1906, \$21,000, and in 1907, \$21,400.

This condition is not peculiar to Melrose, but is the same in all cities and towns in the Metropolitan district, some of which I am informed, to meet their annual increased assessment, have found it necessary to increase their water rates instead of reducing them as Melrose has done.

The Metropolitan Board are advocating changing the assessment to the cities and towns so that the same shall be

levied in proportion to the amount actually consumed by each.

There was passed by the Legislature in 1902, Chapter 391, an Act authorizing the said Board to "measure all water supplied to each of the cities and towns in the Metropolitan water district," and to "report to the next General Court the quantity of water supplied to each of the cities and towns and the manner in which the consumption of the water may be considered in the apportionment among the cities and towns of the annual assessment required for the construction and maintenance of the Metropolitan Water Works."

The time for making the report was extended for one year, and they have just issued—February 11, 1904—an exhaustive report (House No. 1100), in which they strongly recommended, to prevent excessive use and waste of water, the adoption of meters; but in which they also state, that, as Boston pays about 80 per cent. of the entire assessment, unless done by all the cities and towns within the district, it would be of no material benefit to such as had adopted them.

I therefore recommend the postponement of the introduction of meters until such time as the assessments are based upon the consumption.

In this report of the Metropolitan Water and Sewerage Board are many tables, giving valuable information concerning the water systems of the various cities and towns within the district, viz: the amount of their assessment, population, average daily consumption per capita, night consumption and leakage, miles of mains, house fixtures and services. From this report the following table is compiled and made up, and from which it will be seen that the "consumption and waste" in Melrose is larger than in any other city in the district except Boston.

TABLE II.

ESTIMATE OF COST OF PIPES RECOMMENDED TO BE RELAID.

Item.	LOCATION.			Pipe.				Lead.			Excavation.				14	Tees, reducers, plugs, etc.			Special castings.			Hydrants.		Gates.		25		26			
				1	2	3	4	5	6	7	8	9	10	11		12	13	15	16	17	18	19	20	21	22					23	24
				Length in feet.	Diameter in inches.	Standard weight per linear foot in lbs.	Tons, 2,240 lbs. each.	Price per ton.	Cost.	Weight per joint, lbs.	Total weight in lbs.	Cost at 5c. per lb.	Earth.			Rock		Number.	Approximate weight in lbs.	Cost at 2 1/2 c. per lb.	Number.	Approximate weight in lbs.	Cost at 3 1/2 c. per lb.	Number.	Cost at \$35.					Number.	Cost.
													Cubic yds. 2/3 cu. yd. per lin. ft.	Cost at 60c. per yd.		Cubic yards.	Cost at \$4.00.														
From To														Teaming, cost at 50c. per ton.															Total cost.		
1	Albion St.	Melrose St.	North	960	6	32	13.7	\$30.00	\$ 411.00	12 1/2	1,020	\$ 51.00	640	\$ 384.00	...	\$ 6.85	1	100	\$ 2.50	2	400	\$ 14.00	1	\$ 35.00	3	\$30.00	\$93.43	\$1,027.78			
2	Ashland Pl.	Melrose St.	South	375	6	32	5.3	30.00	159.00	12 1/2	395	19.75	250	150.00	...	2.65	...	...	...	...	...	...	1	10.00	34.14	375.54		
3	Chipman Ave.	Franklin St.	North	300	6	32	4.3	30.00	129.00	12 1/2	319	15.95	200	120.00	...	2.15	...	...	...	1	200	7.00	...	2	20.00	29.41	323.51	
4	Charles St.	Oakland St.	North	385	6	32	5.5	30.00	165.00	12 1/2	408	20.40	256	153.60	...	2.75	1	150	3.75	1	200	7.00	...	1	10.00	36.25	398.75				
5	Chestnut St.	Mt. Vernon St.	Lynde St.	830	6	32	11.8	30.00	354.00	12 1/2	880	44.00	552	331.20	...	5.90	1	300	7.50	1	200	7.00	1	35.00	4	40.00	82.46	907.06			
6	Emerson St., W.	Poplar St.	West	525	6	32	7.5	30.00	225.00	12 1/2	561	28.05	350	210.00	...	3.75	...	...	...	1	200	7.00	1	35.00	1	10.00	51.88	570.68
7	Ellsworth Ave.	Tremont St.	Ashland St.	490	6	32	7.0	30.00	210.00	12 1/2	523	26.15	326	195.60	...	3.50	...	...	...	...	...	...	1	35.00	2	20.00	49.02	539.27
8	Gooch St.	Upham St.	E. Foster St.	695	6	32	9.9	30.00	297.00	12 1/2	739	36.95	463	277.80	...	4.95	1	250	6.25	2	400	14.00	1	35.00	6	10.00	68.19	750.14			
9	Howard St.	Elm St.	Saugus line.	3,230	8	48	69.2	30.00	2,076.00	18 1/2	5,044	252.20	2,022	1,213.20	130	\$520.00	34.60	3	450	11.25	1	250	8.75	3	105.00	1	15.00	423.60	4,659.60		
10	Linwood Ave.	Park St.	South	280	6	32	4.0	30.00	120.00	12 1/2	293	14.65	186	111.60	...	2.00	2	300	7.50	...	...	...	...	...	...	...	25.57	281.32
11	Mt. Vernon St.	Mt. Vernon Pl.	East	470	6	32	6.7	30.00	201.00	12 1/2	497	24.85	287	172.20	25	100.00	3.35	...	...	...	...	...	...	...	...	...	50.14	551.54
12	Main St.	Melrose St.	Wakefield	2,944	10	60	78.8	30.00	2,364.00	23 1/2	5,696	284.80	1,442	1,105.20	120	480.00	39.40	13	2,600	65.00	15	3,300	115.50	4	140.00	5	100.00	469.39	5,163.29		
13	Parker St.			410	4	22	4.0	30.00	120.00	8	272	13.60	272	163.20	...	2.00	2	300	7.50	...	...	...	...	2	20.00	32.63	358.93	
14	Porter St.	Linden St.	Fletcher St.	107	12	86	4.1	30.00	123.00	27 1/2	245	12.25	70	42.00	...	2.05	4	1,200	30.00	...	...	...	...	2	20.00	22.93	252.23	
	"	Fletcher St.	School St.	840	10	60	2.2	30.00	66.00	23 1/2	1,627	81.35	560	336.00	...	1.10	...	...	...	...	...	...	1	35.00	...	...	51.94	571.39
15	Rowe St.	Porter St.	Upham St.	1,400	6	32	20.0	30.00	600.00	12 1/2	1,491	74.55	932	559.20	...	10.00	...	...	...	4	800	28.00	2	70.00	...	134.17	1,475.92	
16	Summer St.	Wyoming Ave.	Lynde St.	710	12	86	27.2	30.00	816.00	27 1/2	1,608	80.40	472	283.20	...	13.60	...	...	...	4	1,850	64.75	1	35.00	...	129.29	1,422.24	
	"	Lynde St.	Linwood Ave.	320	6	32	4.5	30.00	135.00	12 1/2	331	16.55	212	127.20	...	2.25	...	...	...	1	200	7.00	...	...	...	28.80	316.80	
17	School St.	Porter St.	South	1,000	6	32	14.2	30.00	426.00	12 1/2	1,058	52.90	666	399.60	...	7.10	2	300	7.50	...	...	...	1	35.00	2	20.00	94.81	1,042.91
18	Upham St.	Lebanon St.	Sewall St.	1,530	10	60	41.0	30.00	1,230.00	23 1/2	2,952	147.60	1,020	612.00	...	20.50	2	400	10.00	2	500	17.50	2	70.00	6	100.00	220.76	2,428.86			
	"	Sewall St.	Fletcher St.	210	12	86	8.0	30.00	240.00	27 1/2	463	23.15	140	84.00	...	4.00	1	300	7.50	...	...	...	...	...	1	10.00	36.86	405.51
	"	Fletcher St.	East	2,850	10	60	77.0	30.00	2,310.00	23 1/2	5,510	275.50	1,850	1,110.00	50	200.00	38.50	9	1,350	33.75	2	500	17.50	3	105.00	...	409.02	4,499.27			
19	Wyoming Ave.	Lynde Ave.	West	600	16	135	36.1	30.00	1,083.00	50 1/2	2,525	126.25	400	240.00	...	18.05	...	...	...	1	540	18.90	1	35.00	...	152.12	1,673.32	
Totals									\$13,860.00			\$1,722.85		\$8,380.80		\$1,300.00	\$231.00		\$200.00			\$333.90		\$805.00		\$435.00	\$2,726.85	\$29,995.40			

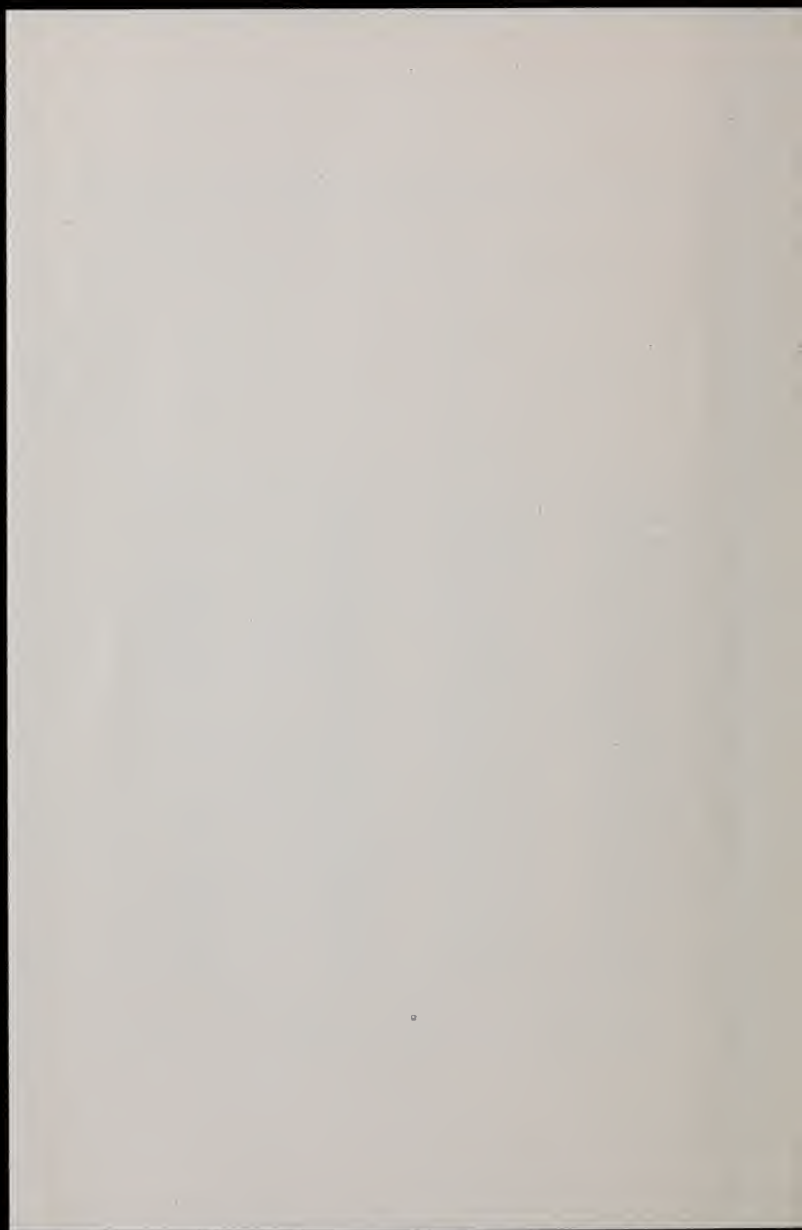


TABLE I.
STATISTICS RELATING TO THE METROPOLITAN WATER SUPPLY.

City or Town.	Population, 1903.	No. of Services, 1903.	No. of Meters, 1903.	Miles of Water Mains.	Consumption of Water, Daily average per capita in gallons.					Total Daily Average Consumed, Gallons.	Revenue from Water Rates.			Totals.
					For Manufacturing Purposes.	For Street Sprinkling.	For Public Fountains.	Night Rate.	Total Daily Average per capita.		Percentage of Metered Water.	Received from Private Consumers.	Received from Muni- cipalities.	
Boston	597,900	89,384	4,617	723.0	24.90	2.35	.63	92	130	78,228,000	43.6	\$2,306,191.98	.....	\$2,306,191.98
Somerville	67,600	10,710	271	82.5	13.98	1.97	.49	50	82	5,600,000	23.7	213,965.51	.....	213,965.51
Malden	36,900	6,700	4,245	82.0	3.93	1.87	1.31	25	47	1,764,000	70.5	95,968.95	\$1,143.29	97,112.24
Chelsea	35,900	6,257	113	38.7	12.38	1.12	.48	65	94	3,399,000	22.0	100,468.03	6,821.00	107,289.03
Everett	28,000	4,670	49	42.0	18.61	1.97	.59	55	81	2,307,000	28.6	80,827.74	674.40	81,502.14
Quincy	26,800	4,850	152	83.7	6.72	1.43	1.27	57	89	2,415,000	18.5	78,093.48	.....	78,093.48
Medford	21,000	4,039	124	50.4	3.89	3.41	1.53	48	78	1,654,000	11.2	53,549.53	6,148.72	59,698.25
Melrose	13,900	3,221	95	44.5	1.54	2.06	.63	71	100	1,395,000	6.1	49,990.22	.....	49,990.22
Revere	12,700	2,261	28	34.5	1.88	.96	1.26	38	60	796,000	4.0	32,382.93	5,117.07	37,500.00
Watertown	10,800	1,692	1,515	30.1	4.27	3.67	.51	20	49	532,000	96.3	31,196.88	.....	31,196.88
Arlington	9,700	1,700	94	34.3	6.11	2.12	1.04	43	63	619,000	11.4	35,721.89	.....	35,721.89
Milton	7,400	1,078	1,078	35.0	4.69	5.87	.44	15	44	325,000	100.0	27,694.68	11,155.70	38,850.38
Winthrop	7,300	1,747	9	22.7	1.7	2.48	1.88	55	89	668,000	.9	27,818.08	4,681.92	32,500.00
Stonham	6,400	1,157	19	19.9	3.34	.60	.24	50	73	467,000	9.8	19,246.35	2,400.00	21,646.35
Belmont	4,800	621	621	17.9	5.06	1.47	2.34	23	47	228,000	100.0	11,840.51	452.51	12,293.02
Lexington	4,100	620	4	11.7	2.52	.....	2.56	38	68	9,729.87	5.1	9,729.87	4,630.99	14,360.86
Nahant	1,300	462	43	15.9	1.58	8.63	6.94	20	62	158,000	11.0	6,382.47	800.00	7,182.47
Swampscott	5,100	1,055	.....	17.2	.....	3.67	2.31	41	83	527,000	....	17,104.33	1,435.50	18,539.83
Totals and averages	897,600	142,224	13,077	1,386.0	19.44	2.13	.74	77	112	101,325,000	39.7	\$3,198,173.43	\$45,461.10	\$3,243,634.53

Relaying Pipes.

Of the 18 streets, in which I recommended in my report last year that the water pipes be relaid, 15 have been done, and include more than one half of the 12 inch loop line recommended.

Leading off of a 16 inch main in Wyoming avenue, we now have a 12 inch pipe through Cleveland, Maple, Vinton, Orris and Warren streets, and connects with the 10 inch main in Franklin street; this 10 inch main in Franklin street increases in size at Vinton street to 12 inch, and continues through Franklin, Green, Avon, Elm and Linden streets to Porter street, and is connected with a 14 inch main in Main street by a 10 inch pipe through Porter street.

The cost of this work is shown in detail by Table No. 1.

SUMMARY OF PIPE LAID AND ABANDONED.

NEW PIPE LAID.		OLD PIPE ABANDONED.	
Size.	Length.	Size.	Length.
4 inch	402 ft.	1½ inch.....	360 ft.
6 inch	6,460 ft.	2 inch.....	738 ft.
8 inch	2,390 ft.	4 inch.....	11,622 ft.
10 inch.....	1,543 ft.	6 inch.....	2,958 ft.
12 inch.....	6,754 ft.	8 inch.....	350 ft.
16 inch.....	260 ft.	16 inch.....	260 ft.
Not reported in 1902,	285 ft.		
Totals.....	18,094 ft.	Totals.....	16,278 ft.
Number of new gates:		Number of new hydrants, 7	
Replaced	40	Number of hydrants reset, 13	
Additional.....	12		
Total	52		

In addition to the pipes already relaid, I recommend those shown in Table No. 2.

RELAY 1903 — SUMMARY OF WORK DONE AND ITS COST BY STREETS.

	LOCATION.	Pipe laid.		Pipe abandoned.		Gates.		Hydrants.	Charged to Relay.			Improved in plant charged to Construction.	Total Cost of Work.
		Length in feet.	Size inches.	Length in feet.	Size inches.	Number.	Size inches.		Stock.	Labor.	Total.		
1	Avon St., Elm St. to Green St.....	376	12	377	4	..	..	..	\$146.10	\$151.97	\$298.07	\$294.14	\$592.21
2	Circuit St., at Hurd St.....	40	6	40	4	..	..	..	36.34	34.11	70.45	..	70.45
3	Charles St., at Otis St.....	60	4	60	4	..	..	..	16.75	..	16.75	..	16.75
4	Cedar Pk., North and South.....	1,576	6	350	1½	1	6	..	467.11	777.56	1,244.67	360.57	1,605.24
	" " " " " " " " " " " " " "	..	..	330	2	3	6	..	38.40	96.79	135.19	247.79	382.98
5	Elm St., Linden St. to Howard St.	419	12	1,218	4	..	..	..	..	..	..	..	..
"	" " " " " " " " " " " " " "	668	6	1,070	4	1	12	*1	463.32	535.39	998.71	709.40	1,708.11
6	Emerson St., W., B. & M. R. R. to Poplar St.	1,061	8	1,061	4	{ 3 } 2 6 }	*1	..	479.96	838.29	1,318.25	673.70	1,991.95
7	Herbert St., Berwick to Myrtle St.....	342	4	158	2	..	..	..	75.10	72.35	147.45	78.24	225.69
"	" " " " " " " " " " " " " "	..	..	220	4	..	..	..	..	..	..	..	..
8	Howard St., Green St. to Elm St.....	278	8	278	4	2	8	..	151.19	152.44	303.63	179.35	482.98
9	Lake Ave., Emerson St. to Tremont St...	1,192	6	1,200	4	..	..	*1	478.50	375.71	854.21	296.10	1,150.31
10	Linden St., Porter St. to Burrell St.....	651	12	{ 250 } 401	2	1 12 } 1 6 }	*1	..	182.49	292.70	495.19	918.44	1,393.63
11	Leeds St., at Otis St.....	21	6	..	4	..	..	..	50.42	5.25	55.67	..	55.67

SUMMARY OF WORK DONE AND ITS COST BY STREETS.—Continued.

No.	Location.	Pipe laid.		Pipe abandoned.		Gates.		Hydrants.	Charged to Relay.			Improvement in plant charged to Construction.	Total Cost of Work.
		Length in feet.	Size inches.	Length in feet.	Size inches.	Number.	Inches.		Stock.	Labor.	Total.		
12	Oakland St., Vinton St. to Charles St.	1,158	6	1,161	4	2	6	* 1	\$ 448.80	\$569.32	\$1,018.12	\$ 302.02	\$1,320.14
13	Orris St., Vinton St. to Warren St.	728	12	150	6	1	12	* 1	327.15	413.70	740.85	876.43	1,617.28
14	Perkins St., Vinton St. to Sewall Wds. Rd.	158	8	158	4	..	..	..	55.30	20.18	75.48	71.10	146.58
15	Porter St., Main St. to Linden St.	1,543	10	1,543	4	{ 3 10 }	{ 5 6 }	1	641.03	794.98	1,436.01	1,444.75	2,880.76
16	Vinton St., Maple St. to Orris St.	3,968	12	2,208	6	8	12	2	2,492.08	2,622.47	5,114.55	4,458.45	9,573.00
17	Warren St., Orris St. to Franklin St.	612	12	610	4	2	12	* 2	356.20	421.49	777.69	875.81	1,653.50
18	Wyoming Ave., Cleveland St. to Lynde Ave.	260	16	260	.16	1	6	1	520.00	377.61	897.61	239.07	1,136.68
19	Youle St., Vinton St. to Leeds St.	893	8	893	4	2	8	* 1	450.34	280.81	731.15	544.88	1,276.03
Totals		15,983		16,278		45		17	\$7,876.58	\$8,833.12	\$16,709.70	\$12,570.24	\$29,279.94

* NOTE: Hydrants reset, 13; new, 4.

Construction.

The principal item of expense charged to construction is the one designated as "improvement to plant," and is for the increase expense of relaying old mains on account of increasing their size; the other items are for extensions in various streets as enumerated, for additional gates and hydrants placed on existing lines, and for additional street service pipes to new houses.

A detail of all work done, together with its cost, follows:

General Maintenance.

The cost of general maintenance has been larger than the previous year, and is due principally to two causes: First, the severity of the weather causing an unusual number of services and some mains to freeze, and second, the renewing of a greater number of iron services with all lead. These, together with the cost of changes made necessary by the construction of surface drains, account for the increased cost of maintenance.

All stock purchases for the water division is charged to this account—general maintenance—and when used, credit is given, making it necessary to keep what is termed a stock account. Prior to this year, the money value of this account was only reckoned from the value of stock purchased since 1900, but this year I have caused all stock of whatever nature to be collected and have placed some value on the same, and have taken it into our stock account, which increases the amount of stock on hand February 1, 1903 by \$6,794.58, a detail of which is given on page 53.

47.41 miles of mains have been cared for.

40 breaks on cement mains repaired.

29 joint leaks on cast iron mains repaired.

6 gates repacked.

7 new fire hydrants set.

280 fire hydrants cleaned, painted, oiled and kept free from snow and ice.

61 service leaks repaired.

114 services cleaned in street.

82 services in private premises cleaned.

93 services renewed with all lead in street.

43 services renewed with all lead in private premises.

49 new services laid.

9 new meters set and 4 discontinued.

95 meters examined and repaired when needed.

GENERAL MAINTENANCE—EXPENSE IN DETAIL.

Amount paid James McTiernan, as per pay rolls	\$936 00	
Amount paid W. H. Martin, as per pay rolls	468 00	
Amount paid Edward Riley, as per pay rolls	390 00	
Labor testing for leaks, Metropolitan Water Commissioners	54 44	
Labor sundry persons inspecting and de- livering water bills, sealing, off and on water as per pay rolls	315 41	
	<hr/>	\$2,163 85
One half rent of Tremont street yard	\$175 00	
Rent of shop Sanford street	150 00	
Board of two horses	480 00	
Repair carts, harnesses and shoeing horses	95 85	
Blacksmithing and repair tools	290 03	
New tools	271 09	
Hardware, oil, gasoline and sundries	273 83	
Repair meters	25 81	
Telephone service	34 72	
Books, stamps and stationery	153 66	
Advertising water notices	1 05	
Lost time on account of injuries	117 00	
	<hr/>	\$2,068 04
		<hr/>
		\$4,231 89

Maintenance of Services.

Labor as per pay rolls	\$1,449 89	
Stock used	670 19	
	<hr/>	2,120 08
		<hr/>
Amount carried forward,		\$6,351 97

PUBLIC WORKS DEPARTMENT.

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Amount brought forward, . . . \$6,351 97

Maintenance Main Lines.

Labor repairing leaks, etc., per pay roll	\$606 34	
Stock used in repair leaks . . .	409 80	
Labor caring for hydrants per pay roll	180 69	
Stock used on hydrants . . .	9 42	
	<hr/>	1,206 25

Inside Service and Charges.

Labor as per pay rolls . . .	\$697 57	
Stock used . . .	775 88	
	<hr/>	1,473 45
		<hr/>
		\$9,031 67

NOTE.—To obtain net cost of maintenance, subtract receipts and transfers \$1,984.59=\$7,047.08.

STOCK ACCOUNT.

Balance on hand per report 1902 .	\$2,111 27
Commissioners' stock not previously reported on . . .	6,794 58
Stock bought:	
Wrought iron pipe and fittings . .	\$71 01
Cast iron pipe and fittings . .	17,730 80
Lead and lead pipe . . .	112 03
Brass fittings . . .	403 37
Hydrants . . .	1,275 65
Gate and service boxes . . .	475 38
New meters . . .	183 60
Freights on stock . . .	352 99
Coal, wood and coke . . .	73 11
Sewer pipe . . .	46 63
Lumber . . .	17 31
Advertising for bids . . .	45 25
	<hr/>
Amount carried forward .	\$20,787 13

Amount brought forward	\$20,787 13	
Powder and exploders	\$48 22	
Gravel and crushed stone	152 42	
Labor preparing stock at shop	410 50	
	<hr/>	\$21,398 27
		<hr/>
		\$30,304 12

Stock used :

On construction services	\$424 85	
On construction main lines	1,353 00	
On improvement to plant, increase in size of pipes charged to construc- tion	12,570 24	
On relay	7,876 58	
On inside services	775 88	
On outside services, maintenance	670 19	
On main line	419 22	
	<hr/>	24,089 96
		<hr/>
		\$6,214 16

Stock on hand including meters at shop:

Estimated value of tools in use	\$1,478 90
“ “ “ stable outfit	540 00
“ “ “ meters in use now charged to maintenance account	1,547 40

TOTAL OF DISTRIBUTING PIPES LAID TO JANUARY 31, 1904.—Continued.

LOCATION.	FEET OF CAST IRON PIPE.										FEET OF CEMENT PIPE.						
	¾-in	1-in	1½-in	2-in	4-in	6-in	8-in	10-in	12-in	14-in	16-in	2-in	4-in	6-in	8-in	10-in	12-in
Short street.....																	
Sibley ".....													216				
Sixth ".....														145			
South avenue.....				120		37							893				
Spear street.....						440											
Spring ".....					10	228								450			
Staples ".....																	
Stevens place.....						360								400			
Summer street.....																	
Summit avenue.....													1,030				
Swains Pond avenue.....						1,060							442				
Sylvan street.....						320							920	900			
Tappan ".....													1,070				
Trenton ".....																	
Trenton ".....					50		2,740		845								
Union ".....							2,560										
Upham ".....								953									
Upland road.....													673				
Vine street.....						569							4,628	400			
Vinton ".....						892											
Vista ".....				315		340			4,024								
Walnut ".....					200												
Walton park.....					420												
Warren street.....													1,037				
Warwick road.....					350				612								
Washington street.....																	
Water street.....	582							1,770					850		1,700	1,200	
Waverly avenue.....						160											
Waverly place.....						620											
Waverly place.....						690											
West Hill avenue.....																	
Wheeler ".....						545								897			
Whitman ".....																	
Whittier street.....	75					370											
Willow ".....						630											
Willow ".....						620											
Winter ".....																	
Winthrop ".....						600							250				
Winthrop place.....					18	360							202				

TOTAL OF DISTRIBUTING PIPES LAID TO JANUARY 31, 1904.—Continued.

LOCATION.	FEET OF CAST IRON PIPE.										FEET OF CEMENT PIPE.							
	3½-in	1-in	1½-in	2-in	4-in	6-in	8-in	10-in	12-in	14-in	16-in	2-in	4-in	6-in	8-in	10-in	12-in	16-in
Size of pipe.....																		
Woodland avenue.....					1,500													
†Wyoming "						600			32		2,605							673
Wyoming park.....					375									500				
York terrace.....						600												
York terrace, private way to Ferdinand street.....																		
Youle street.....						150												
						350	893							707				
Totals.....	1,559	1,105	375	5 728	11,832	75,680	21,764	6,353	19,025	2,920	4,505	1,365	59,513	31,006	1,700	1,200	4,050	673

SUMMARY.—99,507 feet cement pipe, 150,846 feet iron pipe,
or 18.84 miles cement pipe, and 28.57 miles iron pipe.
Total miles of pipe, 47.41 miles.

NOTES.—The above includes 5,287 feet of pipe in Stoneham and 290 feet in Wakefield, and excludes 600 feet of service pipe in Renwick Road, Wakefield.

Metropolitan water pipe in Melrose, 1.09 miles of 48 inch iron pipe.

† 22 feet of 20 inch iron pipe.

SEWER DIVISION.

Construction.

No sewers are built except by orders of the Board of Aldermen.

In 1903 these orders were:

Ferdinand street, Franklin street to summit	Order No. 2192
Union street, Tremont street to angle	" "
Highland avenue, Main street to Hesseltine avenue	" "
Burrell street, Elm street to summit	" "
Richardson road, Henry avenue to summit	" 1873

The sewer in Richardson road was ordered in 1902 and not constructed until 1903, as explained in my last report.

Order No. 2192 for the first four sewers, as originally passed, was decided to be defective so far as it related to the taking of rights in private ways, and was re-enacted on December 21, 1903; at this date cold weather had set in and they were not constructed, but will be early the coming season.

For cost in detail of all sewers constructed, reference is made to Table No. 5.

All labor has been done by the employees of the department, and no contracts made except for the purchase of stock, which was by bids, either solicited or advertised for, and were as follows:

CANVASS OF BIDS FOR FURNISHING THE CITY OF MELROSE,
PUBLIC WORKS DEPARTMENT WITH CEMENT.

Opened Feb. 18, 1903.

PORTLAND.

	BRAND.	Price.		Amount.	
		In Wood	In Bags	In Wood	In Bags
Waldo Bros., 102 Milk St., Boston, Mass.....	Atlas Portland	\$2.38	\$2.08	\$3,570.00	\$3,120.00
New England Brick Co., 189 Devonshire Street, Boston, Mass.....	Alsen Portland	2.28	2.04	3,420.00	3,060.00
Boston Fire Brick Co., 164 Devonshire Street, Boston, Mass.....	Star Portland	2.45	2.15	3,675.00	3,225.00
Eastern Clay Goods Co., 65 Oliver St., Boston, Mass.....	Northampton Portland	2.65	2.35	3,975.00	3,525.00
Berry & Ferguson, 141 Milk St., Boston, Mass.	Saylor Portland	2.36	2.11	3,540.00	3,165.00

ROSENDALE.

	BRAND.	Price.		Amount.	
		In Wood	In Bags	In Wood	In Bags
Waldo Bros., 102 Milk St., Boston, Mass.....	Hoffman	\$1.02	\$0.87	\$306.00	\$261.00
New England Brick Co., 189 Devonshire Street, Boston, Mass.....	Old Newark	1.09	0.94	327.00	282.00
Boston Fire Brick Co., 164 Devonshire Street, Boston, Mass.....	F. O. Norton	1.10	1.00	330.00	300.00
Eastern Clay Goods Co., 65 Oliver St., Boston, Mass.....	Old Newark	1.05	0.90	315.00	270.00
Berry & Ferguson, 141 Milk St., Boston, Mass.	F. O. Norton	1.05	0.90	315.00	270.00
	Beech	1.05	0.90	315.00	270.00

Contract awarded to Waldo Brothers, 102 Milk Street, Boston, Mass.

**CANVASS OF BIDS FOR FURNISHING THE CITY OF MELROSE,
PUBLIC WORKS DEPARTMENT, WITH MANHOLE, CATCH
BASIN AND OTHER CASTINGS.**

Opened by W. Dabney Hunter, Engr. and Supt. of Public Works,
February 18, 1903.

ITEMS.	Quantity.	F. A. Houdlette & Son, 139 Milk street, Boston, Mass.		Sessions Foundry Company, Bristol, Conn.	
Man-hole Rims.....	37	\$ 6.70	\$247.90	\$ 7.80	\$288.60
Man-hole Covers	1	3.35	3.35	4.20	4.20
Man-hole Covers.....	7	3.35	23.45	4.20	29.40
Catch-basin Covers...	25	1.95	48.75	2.40	60.00
Catch-basin Traps...	16	7.50	120.00	16.00	256.00
Totals.....			\$443.45		\$638.20

Contract awarded to F. A. Houdlette & Son, 139 Milk street, Boston,
Mass.

**CANVASS OF BIDS FOR FURNISHING THE CITY OF MELROSE,
PUBLIC WORKS DEPARTMENT, WITH 50 PIECES 4-INCH
STANDARD SOIL PIPE, LEADED TOGETHER IN
10-FOOT LENGTHS.**

Opened March 25, 1903.

Name.	Address.	Amount.
Salt & Allmon.....	Melrose, Mass.....	\$124.00
Brock Brothers.....	Melrose, Mass.....	132.00
R. H. Curry.....	Melrose Highlands, Mass.....	133.00
David Craig.....	70 Broad St., Boston, Mass....	140.00
James Connor & Co.....	89 W. Concord St., Boston, Mass..	140.00
J. L. Holbrook.....	Melrose, Mass.....	150.00

Order given to Salt & Allmon.

MELROSE, MASS., March 26, 1903.

Bid for furnishing the City of Melrose, Public Works
Department, with 50,000 sewer brick, delivered on the work,
opened February 18, 1903 :

New England Brick Company, 189 Devonshire St., Boston,
Mass. \$11.00 per M.

TABLE V.

DETAIL OF SEWER CONSTRUCTION DONE BY THE CITY DURING THE YEAR 1903.

Stock Account.

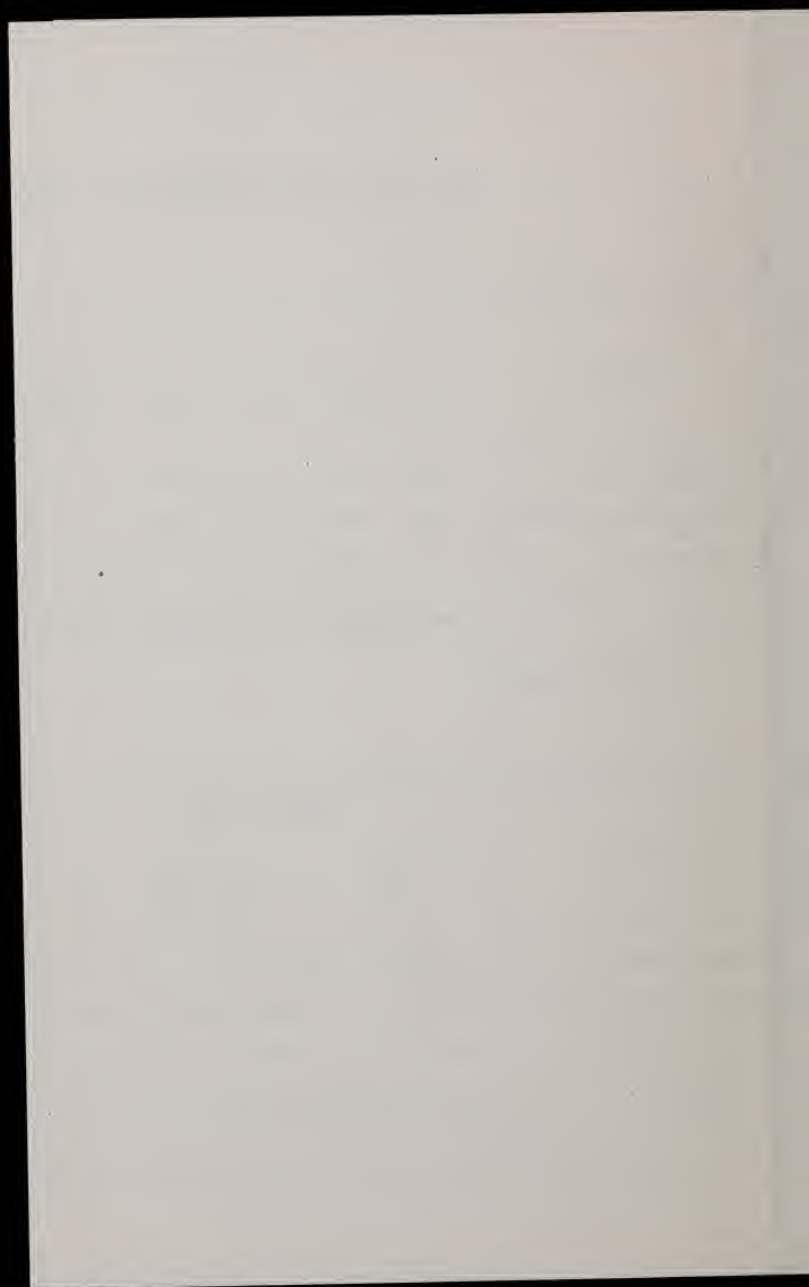
LOCATION.	Sewer pipe.								Portland cement.		Man holes.				Branches, etc.						Brick.		Lumber.		Total.
	6 inch.	Amt. @ \$0.111.	8 inch.	Amt. @ 17½c.	12 inch.	Amt. @ 37½c.	Underdrain.		Barrels	Amt. @ \$2.50.	Frames.	Amt. @ \$10.05.	Rods.	Amt. @ 10c.	6 inch.	Amt. @ 50c.	8 inch.	Amt. @ 83¼c.	5 inch.	Amt. @ 32c.	Number.	Amt. @ \$11.00.	M. feet.	Amt. @	
Ferdinand street.....	420	\$46.62	206	\$ 36.05	...	.....	240	\$22.20	29	\$72.50	7	\$70.35	26	\$2.60	34	\$17.00	14	\$11.65	..	.....	7,750	\$85.25	..	.....	\$364.22
Highland avenue extension.	328	36.41	220	38.50	...	.....	304	28.12	13	32.50	2	20.10	6	.60	18	9.00	13	10.81	4	\$1.28	2,500	27.50	..	.....	204.80
Richardson road.....	272	30.19	692	121.10	*48	\$18.00	82	7.59	37	92.50	7	70.35	25	2.50	18	9.00	37	30.80	19	6.08	8,650	95.15	18	\$31.50	514.76
Totals.....	1,020	\$132.22	1,118	\$195.65	48	\$18.00	626	\$57.91	79	\$197.50	16	\$160.80	57	\$5.70	70	\$35.00	64	\$53.27	23	\$7.36	18,906	\$207.90	18	\$31.50	\$1,083.78

* Used to repair drain.

Labor Account.

LOCATION.	Excavation—earth.						Rock.		Brickwork.		Pipe laying.								Steam pump hire, labor, coal.	City teams.	Total cost of labor.	Total cost of stock.	Damages and sundries charged to construction.	Total cost.
	0-8.	Cost per cu. yd.	Amt.	8-12.	Cost per cu. yd.	Amt.	0-8.	Amt. @ \$5.00.	Cu. yds.	Amt. @ \$5.00.	6 inch.	Amt. @ 8c.	8 inch.	Amt. @ 10c.	12 inch.	Amt. @ 10c.	5 inch underdrain.	Amt. @ 15c.						
Ferdinand street.....	444	\$0.90	\$399.60	...	.....	.....	251	\$1,255.00	15.5	\$77.50	488	\$39.04	232	\$23.20	..	.....	240	\$36.00	.....	\$112.82	\$1,943.16	\$364.22	\$144.57	\$2,451.95
*Highland avenue extension	517	.90	465.30	33	\$1.35	\$44.55	50	250.00	5 5	27.50	364	29.12	246	24.60	..	.....	304	45.60	\$172.73	83.92	1,143.32	204.80	105.99	1,454.11
Richardson road.....	872	.77	671.44	70	1.145	80.15	...	.....	17.3	86.50	305	24.40	766	\$76.60	30	\$3.00	82	12.30	.....	21.09	975.48	514.76	105.26	1,595.56
Totals	1,833	\$0.838	\$1,536.34	103	\$1.21	\$124.70	301	\$1,505.00	38.3	\$191.50	1,157	\$92.56	1,244	\$124.40	30	\$3.00	626	\$93.90	\$172.73	\$217.83	\$4,061.96	\$1,083.78	\$355.82	\$5,501.56

* Labor account includes cost of loading and teaming 40 double loads of sand, taken to the yard, valued at \$80.00.



Cost of System.

In all previous reports, the cost of the system has been based on the actual expenditures to that date, thereby ignoring the value of any stock on hand. In making this statement I shall consider the stock on hand as an asset and deduct it from the cost of the system.

Cost as per report of February 1, 1903	.	\$377,859	27
Less stock balance	.	2,841	21
<hr/>			
		\$375,018	06
Cost of Richardson road sewer	.	\$1,595	50
Cost of Highland avenue sewer	.	1,454	11
Heyward avenue, land damages	.	205	00
Corey place, repair of bridge	.	17	23
Sundry expenses	.	43	20
Frank L. Allen, suit	.	5,565	38
George L. Mayberry, attorney	.	1,500	00
<hr/>			
Total cost of system to date	.	\$387,850	43

ALLEN VS. INHABITANTS OF MELROSE.

This was an action of contract brought by F. L. Allen of Worcester, to recover additional compensation on account of alleged changes in the plan of sewers constructed by him under a contract dated April 23, 1894.

Before bringing suit, Mr. Allen made a claim upon the Board of Sewer Commissioners and was given a hearing by them on March 3, 1896, which was continued from time to time until December 11, 1896, at which time they tendered him, as an offer of compromise, \$3,070.97. This amount covered the balance due him as per the Engineer's final estimate and several minor charges for extra work.

Mr. Allen stated that he would not consider the offer of the Commissioners, or any offer of less than \$10,000, nor would he consider settling for the last named sum until he conferred with his lawyer. As this amount was greater

than the Sewer Commissioners felt justified in settling for, the matter was dropped and suit brought as above.

The aggregate of all items claimed in the plaintiff's declaration, in round numbers, was \$30,000. After consultation with Mr. Washburn, the Town Counsel, the Sewer Commissioners authorized him to employ an associate, and George L. Mayberry of Waltham was selected.

This suit was brought in the Superior Court holden in Worcester County, and Willis E. Sibley, Esq. was appointed as Auditor to hear the evidence and report back to the Court his finding in the case.

This was a complicated case, and the plaintiff produced numerous witnesses; and to meet the testimony offered, the city had to employ experts, take borings, and submit samples of the materials encountered, etc. The case occupied fifteen days of actual trial before the Auditor, and the court, on a hearing before it on the Auditor's report, confirmed said report and found for the plaintiff in the sum of \$9,236.36. The city filed exceptions based on several points, and took the case to the Supreme Judicial Court for the Commonwealth; and the case was argued before said Court, with the result that the finding was reduced to \$4,696.

This sum was found to be due as of the 13th day of June, 1901, and included interest up to that time; interest which accrued subsequently up to the date of payment, with taxable costs added, increased said sum finally found to be due to \$5,565.38, which sum was paid to Allen in final settlement.

RECEIPTS AND EXPENDITURES.

Balance February 1, 1903 . . .	\$3,942 02
Stock at yard, February 1, 1903 . . .	2,841 21
Appropriation, Order No. 2192 . . .	4,100 00
" " to settle claim of Frank	
L. Allen	7,065 38
Receipts, City hall stock . . .	39 88
	<hr/>
Amount carried forward, . . .	\$17,988 49

Amount brought forward	\$17,988	49
Receipts sundry charges . . .	34	17
“ stock, Wells drain . . .	358	96
“ surface drainage, stock, (net)	1,369	29
“ water maintenance, stock	46	63
“ private sewers, stock . . .	528	04
“ highway division, stock, (net)	177	62
“ individual sidewalks, stock	17	50
“ sewer maintenance, stock	29	53
	<hr/>	\$20,550 23

EXPENDED.

Richardson road sewer, (see Table No. 5)	\$1,595	50
Highland avenue sewer, (see Table No. 5)	1,454	11
Ferdinand street sewer (see Table No. 5)	2,451	95
Heyward avenue sewer		
award, A. S. Lynde	\$100	00
“ E. A. Singer	100	00
damage to hose	5	00 205 00
Corey court, repair of bridge	17	23
Stock to other divisions	2,601	62
Sundry expenses	43	20
	<hr/>	\$8,368 61
George L. Mayberry, legal services in case of Frank L. Allen	\$1,500	00
Frank L. Allen, final settlement of claim	5,565	38
	<hr/>	7,065 38
Stock at yard	2,121	05
	<hr/>	17,555 04
	<hr/>	
Balance in treasury	\$	2,995 19

STOCK ACCOUNT AND INVOICES.

Stock on hand, Feb. 1st, 1903

\$2,841 21

Amount paid for:

Castings	\$738 95
Soil pipe	196 00
Brick	255 87
Cement	595 00
Sewer pipe	1,021 08
Freights paid on stock	71 28
Labor on stock	106 88
Powder, exploders, tools and repairs	274 45
Steam boiler and pump	67 50
Blasting logs	25 14
Medical service and injuries to help .	30 00
To other divisions	119 59
Oil, hardware and sundries	77 30
Brick masonry	84 11
Lumber	29 72
Coal for boiler	34 11
Sand	10 50
Land damages	200 00
Repair Corey court bridge	17 23

 3,954 71

 \$6,795 92

Stock used:

Richardson road sewer	\$685 87
Highland avenue sewer	474 88
Ferdinand street sewer	647 07
Corey court sewer	17 23
Heyward avenue	205 00
Surface drainage, net	1,369 29
Wells drain	358 96
Water maintenance, net	46 63
Private sewers	528 04

 Amt. carried forward \$4,332 97

Amt. brought forward	\$4,332 97	
Individual walks	17 50	
Sewer maintenance	29 53	
Highway maintenance, net	177 62	
Sundry charges	43 20	
Sundry persons	34 17	
City Hall	39 88	
	<hr/>	\$4,674 87
Stock on hand, Feb. 1st, 1904	2,121 05	
	<hr/>	\$6,795 92

CITY OF MELROSE

SEWERS BUILT TO FEBRUARY 1, 1904.

Size Pipe.	LENGTH IN FEET.										
	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Totals.
6	14,003.16	20,411.66	26,179.93	22,916.40	2,512.00	4,662.40	.....	839	585	1,188.90	93,299.45
8	5,439.89	8,020.03	15,505.79	11,817.90	1,424.00	1,530.10	.....	2,429	408	1,296.00	47,920.71
10	1,508.02	4,968.55	2,152.38	2,946.60	.....	1,067.00	.....	2,796	1,251	.....	16,689.55
12	949.95	1,250.69	2,407.62	5,672.64	.....	.....	.....	.....	.....	.....	10,280.90
15	354.80	.....	.....	3,121.73	.....	.....	.....	.....	.....	.....	3,476.53
18	2,715.07	.....	317.66	2,117.10	.....	.....	.....	.....	.....	.....	5,149.83
20	2,788.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,788.30
24	1,213.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,213.10
Brick	.....	.....	.....	3,034.94	.....	.....	.....	.....	.....	.....	3,034.94
20 x 18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	111.00
20	111.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	111.00
24	28.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	28.00
Totals.	29,112.29	34,650.93	46,563.38	51,627.31	3,936.00	7,259.50	.....	6,064	2,304	2,484.90	184,002.31

NOTE: Total length of sewers, 184,002.31 feet or 34.659 miles, 2.4 miles of which are owned and controlled by the Commonwealth of Massachusetts, but by an act of the legislature Melrose is permitted to use in the same manner as the local sewers.

PRIVATE SEWERS.

Notwithstanding the opening for use of the new sewers constructed in 1902 and 1903, only 81 buildings have been connected.

This work was all done by the city without any appropriation, the owners paying the entire cost as usual.

STATEMENT OF COLLECTIONS.

DR.

To actual cost private sewers 1903	\$2,060 53	
“ unsettled accounts, 1896,	\$59 89	
“ “ “ 1899	8 08	
“ “ “ 1900	34 55	
“ “ “ 1900		
Main street . . .	121 64	
To unsettled accounts, 1902	47 44	
	<hr/>	271 60
“ sundry repairs, 1903 . . .		25 93
“ sewer construction, sundry		
collections	34 17	\$2,392 23

CR.

By cash paid Treasurer, account		
private sewers	\$2,061 72	
By cash paid Treasurer, account		
construction	34 17	
“ unsettled accounts, 1903,	\$55 94	
“ “ “ 1902	27 41	
“ “ “ 1900	34 55	
“ “ “ 1900		
Main street	110 47	
By unsettled accounts, 1899	8 08	
“ “ “ 1896	59 89	
	<hr/>	296 34
		\$2,392 23

There are 2682 buildings on the line of the sewers, 2196 of which are connected with the sewers, located as appears from the following list:

LIST OF BUILDINGS ON LINE OF SEWERS, 1903.

LOCATION.	Number of Buildings			LOCATION.	Number of Buildings		
	Tributary to the Sewer.	Connected.	Not Connected.		Tributary to the Sewer.	Connected.	Not Connected.
Adams St.....	23	21	2	Cutter St.....	10	9	1
Ainsworth Pl.....	2	2	...	Day St.....	0	0	0
Albion St.....	15	10	5	Damon Ave.....	2	1	1
Allen Pl.....	8	8	...	Dell Ave.....	16	14	2
Appleton S.....	5	3	2	Dill's Court.....	5	3	2
Apthorp Rd.....	4	4	...	Eastman's Pl.....	2	2	0
Argyle St.....	5	2	3	Eighth St.....	5	5	0
Ashland St.....	28	20	8	Elliott St.....	3	...	3
Ashmont St.....	8	8	0	Elm St.....	16	15	1
" Park.....	4	2	2	Ellsworth Ave.....	9	7	2
Auburn St.....	10	8	2	Emerson St.....	90	85	5
Avon St.....	6	6	...	Emerson Pl.....	6	6	0
Bartlett St.....	9	9	...	Essex St.....	39	24	15
Batchelder St.....	15	15	...	Everett St.....	10	9	1
Baxter St.....	21	20	1	Fairmont St.....	16	5	11
Beech Ave.....	20	8	12	Farwell Ave.....	2	2	...
Bellevue Ave.....	32	31	1	Faulkner Pl.....	6	3	3
Belmont St.....	4	3	1	Faxon St.....	2	2	0
Berwick St.....	9	9	0	Ferdinand St.....	9	0	9
Beverly St.....	8	8	...	Felton Pl.....	2	2	...
Boardman Ave.....	11	5	6	Fields' Ct.....	4	4	...
Botolph St.....	15	12	3	First St.....	33	26	7
Briggs St.....	3	2	1	Fletcher St.....	2	2	0
Brown St.....	1	1	...	Florence St.....	32	27	5
Brunswick Pk.....	3	3	...	" Ave.....	4	1	3
Belmont Pl.....	5	5	0	Foster St.....	89	82	7
Berwick Pl.....	1	1	0	Frances St.....	12	12	...
Brunswick Way.....	1	1	0	Franklin St.....	88	73	15
Cass St.....	18	18	0	" Terrace.....	6	5	1
Cedar Pk., N. and E..	14	12	2	Frost Ave.....	6	3	3
" " S.....	5	4	1	Garden St.....	6	5	1
Central Terrace.....	5	5	...	Gibbons St.....	2	2	0
Charles St.....	8	6	2	Glen Ave.....	4	2	2
Chipman Ave.....	6	3	3	Gooch St.....	15	14	1
Chestnut St.....	9	7	2	Goss Ave.....	6	4	2
" Pk.....	6	5	1	Gould St.....	6	6	...
Chester St.....	11	11	0	Green St.....	41	36	5
Cherry St.....	4	3	1	Greenwood St.....	16	13	3
Circuit St.....	11	11	...	Grove St.....	97	74	23
Cleveland St.....	28	27	1	" Pl.....	4	4	...
Cliff St.....	2	2	0	Grundy St.....	4	4	0
Clifton Pk.....	2	...	2	Harvard St.....	7	5	2
Corey Pl.....	1	1	0	Hawes Ave.....	3	2	1
Cottage St.....	25	23	2	Henry Ave.....	8	4	4
Crescent Ave.....	29	25	4	Heyward Ave.....	7	3	4
Crescent Pl.....	6	6	...	Herbert St.....	6	6	...
Crystal St.....	5	4	1	High St., N.....	9	8	1

LIST OF BUILDINGS ON LINE OF SEWERS.—Continued.

LOCATION.	Number of Buildings			LOCATION.	Number of Buildings		
	Tributary to the Sewer.	Connected.	Not Connected.		Tributary to the Sewer.	Connected.	Not Connected.
High St., S.....	9	9	...	Poplar St.....	8	6	2
Highland Ave.....	29	23	6	Potter St.....	1	1	0
Hillside Ave.....	18	18	0	Pratt St.....	6	6	0
Holbrook Ct.....	7	5	2	Prospect St.....	11	4	7
Howard St.....	14	10	4	Rendall Ct.....	2	2	0
Howie Ct.....	8	6	2	Richardson Rd.....	12	5	7
Hurd St.....	12	10	2	Rockland St.....	11	8	3
Ingalls Ct.....	3	2	1	Rowe St.....	32	23	9
Irving St.....	13	3	10	Russell St.....	14	9	5
Kimball Ct.....	3	1	2	Sanford St.....	13	13	0
Lake Ave.....	19	18	1	Sargent St.....	29	25	4
Larrabee St.....	1	...	1	Sewall St.....	8	7	1
" Pl.....	3	2	1	Sewall Woods Rd.....	2	1	1
Laurel St.....	23	19	4	Short St.....	2	2	0
Lebanon St.....	64	58	6	South Ave.....	10	7	3
Linden St.....	7	3	4	Stevens Pl.....	7	7	0
Linden St., W.....	6	5	1	Summer St.....	16	11	5
" Pl.....	5	3	2	Summit Ave.....	5	4	1
Linwood Ave.....	27	23	4	Tappan St.....	21	20	1
Lynde St.....	31	29	2	Tremont St.....	55	27	28
Main St.....	173	148	25	Trenton St.....	43	37	6
Malvern St.....	20	11	9	Upham St.....	46	41	5
Maple St.....	30	27	3	Vine St.....	11	10	1
Melrose St.....	39	30	9	Vinton St.....	49	41	8
" Pl.....	6	4	2	Walnut St.....	1	1	0
Meridian St.....	12	11	1	Walton Pk.....	24	9	15
Mt. Vernon St.....	8	6	2	Warren St.....	10	7	3
" " Ave.....	7	7	0	Warwick Rd.....	5	3	2
Myrtle St.....	38	38	0	Washington St.....	15	10	5
Mystic Ave.....	17	15	2	Waverly Pl.....	12	12	0
North Ave.....	9	6	3	West Hill Ave.....	10	5	5
Norris Ct.....	2	1	1	Whitman Ave.....	3	3	0
Oakland St.....	16	12	4	Whittier St.....	18	17	1
Olive Ct.....	1	1	0	Willow St.....	8	8	0
Orient Ave.....	12	9	3	Winter St.....	3	3	0
" Place.....	4	4	0	Winthrop St.....	19	13	6
Orris St.....	18	13	5	" Pl.....	7	1	6
Otis St.....	16	15	1	Woodland Ave.....	12	6	6
Parker St.....	7	6	1	Wyoming Ave.....	54	52	2
Pearl St.....	15	5	11	" Park.....	1	1	0
Perham Ave.....	4	4	0	York Ter.....	11	6	5
Perkins St.....	3	3	0	Youle St.....	18	15	3
Pine St.....	5	3	2				
Pleasant St.....	21	19	2				
Porter St.....	14	14	0				
				Totals.....	2682	2169	514

**SUMMARY OF ALL PRIVATE SEWERS CONSTRUCTED
TO FEBRUARY 1, 1904.**

YEAR.	Total length in miles.	Average cut in feet.	Average cost per foot.	Excavation.		Cost per cu. yd.	
				Earth, cu. yds.	Rock, cu. yds.	Earth.	Rock.
1895.....	2.096	6.33	\$0.4845	7,736.00		\$0.441	
1896.....	4.042	6.03	.4543	14,303.00	190.2	.377	\$4.50
1897.....	2.966	6.07	.3933	10,557.00	35.0	.387	4.50
1898.....	2.073	5.56	.45	6,663.71	101.5	.444	2.90
1899.....	4.349	5.83	.4589	14,684.00	196.7	.380	4.00
1900.....	2.480	5.88	.4609	8,541.00	85.0	.413	4.50
1901.....	1.083	5.88	.4746	2,595.00	135.0	.479	4.50
1902.....	0.879	5.80	.44	2,836.00	25.0	.390	4.00
1903.....	0.811	6.13	.422	2,845.00	28.0	.491	4.00
Averages and Totals ..	20.779	5.95	\$0.4554	70,760.71	796.4	\$0.422	\$4.11

1. Number of private sewers constructed in 1903..... 81

2. Number connected with State sewer..... 3

(Item 1 includes item 2.)

**CLASSIFIED LIST OF ALL BUILDINGS CONNECTED WITH
THE PUBLIC SEWERS, FEBRUARY 1, 1904.**

DESCRIPTION.	1895	1896	1897	1898	1899	1900	1901	1902	1903	Totals
Single houses.....	164	362	264	181	400	239	100	70	67	1,847
Double houses.....	26	47	31	20	37	13	6	15	11	206
Blocks, stores and tenements..	17	18	10	5	13	6	3	1	0	73
Tenement blocks of 4 or more tenants.....	3	0	11	4	7	0	2	0	0	27
Churches.....	3	1	0	0	0	1	0	0	1	6
Club houses.....	1	0	0	0	0	0	0	0	0	1
Public buildings.....	1	5	4	3	0	0	0	0	2	15
Hospital.....	1	0	0	0	1	0	0	0	0	2
Railroad stations.....	1	1	0	2	0	0	0	0	0	4
Fire stations.....	1	0	0	1	0	0	0	0	0	2
Mills.....	0	1	1	1	0	0	0	0	0	3
Hotels and boarding houses ..	1	1	0	1	0	0	0	0	0	3
Stables.....	1	0	1	0	1	0	1	1	0	5
Private schools.....	0	0	0	0	0	1	0	0	0	1
Laundry.....	0	0	0	0	0	1	0	0	0	1
Totals.....	220	436	322	218	459	261	112	87	81	2,196

NOTE: Total number of buildings connected..... 2,169

Abandoned and double connections..... 27

Total..... 2,196

RECEIPTS AND EXPENDITURES.

Balance, Feb. 1st, 1903	\$12 31	
Receipts paid to treasurer:		
August	1,000 00	
October 13, '03	500 00	
November 13th, '03	300 00	
January 7, '04	200 00	
February 17, '04	61 72	
	<hr/>	\$2,074 03

EXPENDED.

Amount of labor as per pay rolls . . .	\$1,386 42	
" paid for teams	43 57	
" " " stock to sewer const.	528 04	
" " " repair to tools	9 90	
" " " oil	62	
" " A. W. Lynde for labor	10 00	
" " for concrete repairs	24 07	
Balance in treasury	71 41	
	<hr/>	\$2,074 03

Sewer Maintenance.

This work consists principally in scraping and flushing the sewers, and is usually done during the winter months; but owing to the unusual quantity of snow, it is now unfinished, which accounts for the unexpended balance.

RECEIPTS AND EXPENDITURES.

Appropriation	\$800 00	
Expended:		
Labor, flushing and repairs	\$408 55	
City teams @ \$1.25 per horse	60 59	
One half rent of sewer yard	175 00	
	<hr/>	
Amount carried forward,	\$644 14	

Amount brought forward	\$,644 14	
Covers and pipe to place broken	29 53	
New oil suits	11 25	
Repairing tools and sundries	9 16	
	<hr/>	\$694 08
Balance in treasury		\$105 92

HIGHWAY DIVISION.

Notwithstanding that the appropriation for the past year was \$4,300 less than for 1902, we have expended \$849.53 more on macadamizing, which shows that we are beginning to reap the benefit from money expended the past few years in the improvement of gutters and drainage, showing conclusively that the general condition of the highways is improving.

Following is a detail of receipts and expenditures and a detail of the subdivisions of the work done, viz.: general repairs, removal of snow, brown tail and gypsy moths, general maintenance, minor repairs, macadamizing, paving gutters and granite crossings.

Balance, Feb. 1st, 1903 (Excise Tax)	\$362 99	
Appropriation general repair maintenance	20,700 00	
Collections paid Treasurer by W. D. Hunter	1,282 07	
" by "	12 69	
Transfers credited for stock and teams for other divisions	2,059 19	
Excise tax from Boston and Northern R. R.	1,622 64	
	<hr/>	\$26,039 58
Appropriation for removal snow	\$2,000 00	
" " exterminating moths	1,000 00	
Receipts for exterminating moths pd. to Treasurer by W. D. Hunter	111 98	
	<hr/>	3,111 98
	<hr/>	\$29,151 56

Expended:

Repair streets,	(see table 6)	\$11,898 49	
Removal snow	(" " 6)	3,016 21	
Exterminating moths	(" " 6)	1,399 06	
Charges to sundry persons and other divisions as per receipts (see table 6)		3,353 95	
Macadamized streets	(see table 7)	7,026 73	
Granite crossings	(" " 9)	687 53	
Paving gutters	(" " 8)	762 52	
Expense account	(see page 83)	236 29	
Tool account	(" " 83)	214 47	
Balance in treasury		556 31	
		<hr/>	\$29,151 56

GENERAL REPAIRS.—Continued.

STREET.	No. days steam roller.	Loads				Cement		Granite				Rolling and material cost.	City teams.	Labor.	Totals.
		Sand and cobles.	Gravel.	Moved.	Crushed stone.	Vitrified brick.	Block pavings.	Portland.	Rosendale.	Straight curb.	Curved.	Coping.	Corners.		
Mystic avenue.....	44	...	...	...	...	...	...	...	...	...	...	\$ 24.00	\$ 45.58
Otis street.....	12	...	38	...	...	...	...	...	...	...	...	81.88	140.32
Orient avenue.....	3	...	...	...	...	...	...	...	...	1.50	4.69
Pleasant street.....	7	...	62	...	...	...	...	...	...	...	...	23.75	84.07
Richardson road.....	1	264	...	...	...	...	...	...	...	...	...	...	...	116.50	149.15
Sargent street.....	16	...	...	...	...	...	...	...	...	8.00	25.00
Summer street.....	...	36	...	...	...	...	...	...	...	...	...	...	...	16.38	22.63
Swains Pond avenue.	...	191	...	...	...	...	...	...	...	...	...	...	...	81.19	182.88
Tremont street.....	8	...	...	...	...	...	...	...	...	3.00	12.13
Upham street.....	31	...	...	...	...	...	...	...	...	28.94	57.75
Vine street.....	10	...	...	...	...	...	...	...	...	4.00	14.00
Winter street.....	...	6	...	...	...	...	...	...	...	...	...	...	...	15.00	24.48
Winthrop street.....	...	38	...	...	...	...	...	...	...	...	...	...	...	15.00	30.67
Wyoming avenue....	2½	54	...	...	188	...	...	...	...	...	...	...	...	130.08	332.33
Cleaning catch basin.	193	...	...	...	...	...	...	...	...	...	429.85	472.04
Cleaning brook.....	352	8	...	...	...	...	...	...	...	...	259.06	292.24
Cleaning street.....	1,798	86	...	...	...	...	...	...	...	...	3,123.14	3,490.77
Trimming trees.....	52.88	62.72
Street signs.....	4.38	25.11
Removal snow.....	2,441.00	3,016.21

GENERAL REPAIRS.—Continued.

STREET.	No. days steam roller.	Loads				Vitrified brick.	Block pavings.	Cement		Granite				Rolling and material cost.	City teams.	Labor.	Totals.
		Sand and cobles.	Gravel.	Moved.	Crushed stone.			Portland.	Rosedale.	Straight curb.	Curved.	Coping.	Corners.				
Brown tail and Gypsy moth.....	\$ 121.89	\$ 29.39	\$ 1,247.78	\$1,399.06
Delivery of coal.....	15.14	16.00	31.14
*Whittier school.....	352.47	9.37	330.00	691.84
*High school.....	11.55	.....	44.25	55.80
†General maintenance and minor repairs..	2,169.97	1,093.88	1,851.13	5,114.98
* Reimbursed by School Department.																	
† General maintenance account.																	
J. Marshall's salary																	\$1,000.00
Wm. H. Martin																	468.00
Charges to other divisions and collections per receipt account																	3,353.95
Minor repairs																	293.03
																	<u>\$5,114.98</u>
														\$5,068.05	\$2,442.45	\$12,157.21	\$19,667.71

TABLE VII.
MACADAMIZED ROADS.

	No. days steam roller.	Loads.			Vitrified brick.	Portland cement.	Width feet.	Length feet.	Granite.					Cost of rolling and material.	City teams at \$1.25 per horse.	Labor.	Total.
		Sand and cobbles.	Gravel.	Moved.	Crushed stone.				Straight curbing.	Curved curbing.	Coping.	Corners.	Brick.				
Hurd street.....	19½	...	20	140	605	...	...	1,020	24.87	.....	...	...	...	\$580.68	\$105.01	\$357.87	\$1,043.56
Laurel street.....	17	...	148	22	626	...	...	1,600	...	.....	...	...	...	653.65	50.61	378.15	1,082.41
Malvern street....	8½	...	86	131	434	...	2	1,070	30.58	6.375	...	...	500	420.76	66.89	323.96	811.61
Melrose street....	33½	...	948	619	1,102	...	...	1,040	.....	.....	.....	.....	...	1,346.25	180.01	813.24	2,339.50
Washington street.	13	...	179	19	837	...	...	1,500	.....	.....	.....	.....	...	710.65	103.14	429.96	1,243.75
Dell avenue.....	5½	...	131	...	204	...	...	585	36.00	17.5	.....	.....	...	249.18	20.95	235.77	505.90
Totals.....			1,512	931	3,908	...	av.	6,815	91.46	13.875	...	2	500	3,961.17	526.61	2,538.95	7,026.73

TABLE VIII.
PAVING GUTTERS.

	Loads		Block paving.	Straight curb.	Covers.	Cement.	Length, yards.	Square yards.	Cost material.	City teams.	Labor.	Totals.
	Pav-ings.	Sand										
Beech avenue.....	12	14	6	..	..	..	180	80	\$ 22.40	\$ 4.63	\$39.00	\$ 66.03
Malvern street.....	202	124	..	50	..	..	1,752	779	162.60	17.15	277.03	456.78
Lebanon street.....	10	2	..	..	..	..	243	108	8.70	5.62	39.81	54.13
Dell avenue.....	48	..	..	..	..	..	240	107	26.40	1.25	48.40	76.05
East Foster street.....	5	2	65	..	..	..	250	111	.50	3.44	51.38	55.32
Repairs .....	..	..	..	..	..	..	.....	.....	.....	3.13	14.49	17.62
Franklin street at Pratt street	3	2	..	4'	1	$\frac{1}{4}$	100	33	6.22	3.12	27.25	36.59
Totals.....	280	144	71	50	4'	1	2,735	1,218	\$226.82	\$33.34	\$497.36	\$702.52

TABLE IX.
GRANITE CROSSINGS.

	Block pavings	Flagging.	Straight curb.	Curved.	Cement	Cost material.	City teams.	Labor.	Totals.
Pleasant street at Wyoming avenue.....	325	4	53' 6"	.....	.....	\$58.33	\$.62	\$9.25	\$68.20
Berwick street at Wyoming avenue.....	150	2	24' 3 $\frac{1}{4}$"	.....	.....	26.78	.63	9.25	36.66
Franklin street at Ferdinand street, re-set	.....	1	.....	.....	.....	1.00	.63	5.12	6.75
Tremont street at Franklin street.....	250	2	58' 4 $\frac{3}{4}$ "	24'	.....	88.78	2.97	29.35	121.10
Green street at Howard street.....	250	3	64' 3"	12'	.....	65.26	2.50	20.50	88.26
Linwood avenue at Grove street.....	490	3	90'	.....	.....	89.40	3.75	27.75	120.90
Main street at ice houses.....	2,885	..	.....	Corners 3-18"	$\left\{ \begin{array}{l} 4 R \\ 2 P \end{array} \right\}$	129.25	12 82	103 59	245.66
Totals	4,350	15	290' 5 $\frac{3}{4}$ "	3 Corners 24'	4 R 2 P	\$458.80	\$23.92	\$204.81	\$687.53

Tool and Expense Account.

Amount paid sundry persons for		
new tools	\$90 31	
Amount paid for repair of tools . .	124 16	
	————	\$214 47
Amount paid J. Marshall for use of horse		
and buggy 52 weeks at \$3 per week	\$156 00	
Amount paid sundry persons for oil,		
brooms, hardware and sundries	80 29	
	————	\$236 29

In addition, I submit the stable, crusher and tool accounts which have been kept as usual, and show the expense and earnings of each.

Although two new horses were purchased, the number of teams has not been increased, as one of these was to take the place of a horse that died in the Malden veterinary hospital, and the other to take the place of one killed on account of a defective hoof. We now have three double and three single teams; most of the horses are young and all are apparently in a healthy condition.

On July 2, 1903, the steam roller, while crossing the tracks of the Boston & Maine Railroad at Emerson street, was struck by a south bound express and badly damaged. No particular damage was done the train or any of the passengers, but David Levy, the engineer on the roller, was injured, and has been disabled ever since.

Satisfactory arrangements have been made with the railroad for adjusting the damage done to the roller, and the same is now in the shop of the Lockwood Manufacturing Company undergoing repairs, and will be ready for use as soon as needed in the spring.

To take the place of our roller, one was hired of the City of Woburn and one of the Town of Wakefield, which increased the cost of rolling over what it has been in the past.

Steam Roller Account.

To use of city roller 65¾ days, charged to		
Streets and other divisions at \$5 per day	\$328 75	
To use of Wakefield roller 15½ days, \$10		
per day	155 00	
To use of Woburn roller 51½ days, \$13 per day	669 50	
To 3000 lbs. coal to Water Division	7 38	
	<hr/>	\$1,160 63
Amount paid out for care of roller	\$13 50	
Amount paid out for roller after ac-		
cident	9 75	
Amount paid for moving roller from		
street to yard	50 50	
Amount paid for coal for three rollers	86 07	
Amount paid Town of Wakefield for		
use of roller	155 00	
Amount paid City of Woburn for use		
of roller	728 50	
Amount paid for oil, waste and sundries	17 55	
	<hr/>	1,060 87
Balance to credit General Maintenance		\$99 76

Stable Account.

Amount paid for 2 horses	\$500 00	
" " " 1 wagon	50 00	
" " " 1 double pung	30 00	
" " " set of blankets	15 24	
	<hr/>	\$595 24
" " " hay, grain and straw	1,764 96	
" " " repair carts	68 95	
" " " shoeing	196 97	
" " " repairs to harness	34 05	
" " " medical service		
medicines, harness oil and sundries	22 90	
Amount paid labor per pay rolls	221 75	
" " rent of stable	264 00	
	<hr/>	2,573 58
		\$3,168 82

CR.

By teams charged to highway work and to other divisions, per Table VI, at \$1.25 per horse per day for the actual time employed	\$2,442 45	
By teams to paving account, Table VIII	38 34	
" " crossings account, Table IX	23 92	
" " macadamized roads, Table VII	526 61	
" " crusher account	37 73	
	<hr/>	\$3,069 05
Deficiency to Maintenance account		\$ 99 77

Stone Crusher and Ledge.

Labor as per pay rolls	\$4,307 71	
City teams @ \$1.25 per horse	37 73	
87.675 tons coal	481 98	
Powder and exploders	420 21	
Castings and steel plates and jaws	627 05	
Oil, waste and sundries	72 53	
Tools and repairs to same	83 29	
New hoisting gear	100 00	
Repairs to crusher and elevator	119 00	
Ledge stone bought	36 75	
	<hr/>	\$6,286 25

CR.

By 7,055 loads crushed stone delivered @ 75c.	\$5,291 25	
" ledge stone, etc., delivered	76 76	
" stock to surface drains	117 00	
" stock school dept.	10 00	
" stock paving gutters	80 55	
	<hr/>	5,575 56
Deficiency to general maintenance		\$710 69

NOTE: The deficiency is due in part to increasing the capacity of the carts and in part to jaws and stone now on hand at the crusher.

SUMMARY OF HIGHWAY IMPROVEMENTS TO DATE.

Streets macadamized	. . . . .	6.3 miles
Gutters paved	. . . . .	5.12 "
Brick walks	. . . . .	1.01 "
Concrete walks	. . . . .	33.78 "
Straight curbing	. . . . .	4.57 "
Curved "	. . . . .	1973. feet
Granolithic walks	. . . . .	1161. "
Brick crossings	. . . . .	3
Stone "	. . . . .	81
Concrete "	. . . . .	108

SURFACE DRAINAGE.

Although this work is just begun in a comprehensive and systematic manner, its results are noticeable in the decreased amount of temporary repairs to the highways.

Drains have been constructed the past season in Dell avenue, Grove street and Linwood avenue, and in Otis street, all of which proved satisfactory and accomplished the object for which they were built, and are greatly appreciated by the residents and those who have occasion to travel on the streets in which they are located.

Most of the drains constructed to date are main or trunk drains, and few laterals have been built; the result is that while the mains are necessarily needed first, the benefit derived from the expenditure of a stated sum is not nearly so great as will be obtained later by the construction of smaller or lateral drains to connect with these mains that we are now building. For instance, the Otis street drain is 1733 feet long and is provided with 13 catch basins, which provide drainage for Otis street from Vinton street to Charles street, a distance of 1209 feet, and cost \$10,431.53; whereas had this amount been expended upon lateral drains, as will be possible in the future if we continue the work now started, the cost per catch-basin would probably not have exceeded \$300, and consequently a greater number could have been constructed, and benefits derived proportionally.

I would recommend the appropriation of an additional \$20,000 early the present year, as the work desired to be done—Elm street, Franklin street, Leonard's drain and Cedar park—cannot be completed for the unexpended balance. This latter drain (Cedar park) should be finished, as at the present time there is a 20 inch drain through Cedar park from Vinton street to the Boston & Maine railroad under the railroad location, and in Essex street to Vine street, where it has a temporary outlet into the Essex street drain, which is only 10 inches in diameter, and is none too large to care for the water from Essex street; and unless this drain (Cedar park) is completed to the brook, that part already constructed, which has cost \$1,853.55, will become filled with deposit and be useless, and the amount already expended be practically wasted.

On June 15, 1903, the Board of Aldermen passed Order No. 2217, taking rights in certain private lands belonging to Maria E. White, Mary Finnegan, Seth E. Benson and the Boston Ice Company, as follows:

In Board of Aldermen, June 15, 1903.

Offered by Alderman Fernald.

Be it ordered: That acting under the provisions of law applicable thereto, a main drain either open or covered, shall be laid or constructed under the law authorizing the assessment of betterments, in the following described right of way as hereinafter set forth, viz:

Beginning at a point on the easterly line of Vinton street at an angle in said line nearly opposite Otis street, thence south, $85^{\circ} 31' 05''$ east one hundred sixty-one and forty-six one hundredths (161.46) feet along the dividing line between land of Mary Finnegan and Maria E. White to the westerly side of the location of the Boston & Maine Railroad; thence in same course eighty-three and ninety one hundredths (83.90) feet across location of said Boston & Maine Railroad to land of Seth E. Benson; thence in same course over land of Seth E. Benson forty-six and forty one hundredths (46.40) feet; thence north $80^{\circ} 56' 35''$ east still over land of said Benson and parallel with and seven and one-half ($7\frac{1}{2}$) feet northerly from a dividing line between land of Seth E. Benson and John P. Deering and Seth E. Benson one hundred fifty-eight and eighty-two one hundredths (158.82) feet to the westerly line of Tremont street; thence in same course across Tremont street forty-five and five one hundredths (45.05) feet; thence in same course across land of the Boston Ice Company eighty-five and seventy-two one hundredths (85.72) feet to Ell Pond.

The above described line is the center line of a taking which is hereby made fifteen (15) feet wide to lie equally on either side of said line, and the above description is intended to conform to plans drawn by W. Dabney Hunter, Engineer and Superintendent of Public Works, hereto annexed and made a part of this order.

It is hereby adjudged that the said drain is a necessity for the public convenience and health; that the City of Melrose acting under the authority of the Public Statutes, and also under all other provisions of law and every other power it hereto enabling, has taken and hereby does take for the purposes of constructing and maintaining a main drain in the private lands as hereinbefore specified for the sole use and benefit of the said City of Melrose the following lot and parcels of land situated in said Melrose, in said County of Middlesex, viz:

A certain lot of land situated on the easterly side of Vinton street, supposed to be owned by Maria E. White, bounded and described as follows:

Beginning at a point on the easterly line of Vinton street at the north-westerly corner of premises and at land of Mrs. Mary Finnegan, thence south, $85^{\circ} 31' 05''$ east one hundred sixty-one and forty-six one hundredths (161.46) feet to the westerly side of the Boston & Maine Railroad location; thence southerly along said Railroad location by a curve of a radius of thirty-one hundred thirty-four and nine one hundredths (3134.09) feet, seven and six-tenths (7.6) feet; thence north, $85^{\circ} 31' 05''$ west one hundred sixty-three and seventy-seven one hundredths (163.77) feet to the easterly line of Vinton street; thence along said easterly line of Vinton street north $11^{\circ} 44' 25''$ east seven and fifty-six one hundredths (7.56) feet to the point of beginning, containing about twelve hundred and nineteen (1219) sq. ft.

A certain other lot situated on the easterly side of Vinton street, supposed to be owned by Mary Finnegan, bounded and described as follows:

Beginning at a point on the easterly line of Vinton street at an angle and at the southwest corner of the premises and at land of Maria E. White, thence along said easterly line of Vinton street north $13^{\circ} 34' 05''$ east seven and fifty-nine one hundredths (7.59) feet; thence south, $85^{\circ} 31' 05''$ east one hundred fifty-eight and ninety one hundredths (158.90) feet to the Boston & Maine Railroad location; thence along the westerly side of said location southerly by a curve of a radius of thirty-one hundred thirty-four and nine one hundredths (3134.09) feet, seven and six-tenths (7.6) feet to land of Maria E. White; thence along land of said Maria E. White north $85^{\circ} 31' 05''$ west one hundred sixty-one and forty-six one hundredths (161.46) feet to the point of beginning, containing about twelve hundred and one (1201) sq. ft.

A certain other lot of land known as the location of the Boston & Maine Railroad, owner and owners unknown, bounded and described as follows:

Beginning at a point on the westerly line of said location, seven and six tenths (7.6) feet southerly from the dividing line between land of Mary Finnegan and Maria E. White, thence along said location line by a curve of a radius of thirty-one hundred and thirty-four and nine one hundredths (3134.09) feet fifteen and two tenths (15.2) feet; thence south $85^{\circ} 31' 05''$, east eighty-three and nine tenths (83.9) feet to land of Seth E. Benson; thence southerly along said Benson's land by a curve to the left of a radius of thirty hundred and fifty-one and fifty-nine one hundredths (3051.59) feet; thence north $85^{\circ} 31' 05''$ west eighty-three and nine tenths (83.9) feet to the point of beginning, containing about twelve hundred and fifty-eight (1258) sq. ft.

A certain other lot of land situated on the westerly line of Tremont street, supposed to be owned by Seth E. Benson, bounded and described as follows: Beginning at a point on the westerly line of Tremont street three hundred fifty-three and one tenth (353.1) feet northerly from the angle in said Tremont street near Lake avenue and at the dividing line between land owned in common by Seth E. Benson and John P. Deering and land of Seth E. Benson; thence along the dividing line between said land of Benson and Deering and Benson south $80^{\circ} 56' 35''$ west one hundred sixty and thirty-four one hundredths (160.34) feet; thence north $85^{\circ} 31' 05''$ west forty-five and ninety-three one hundredths (45.93) feet to the easterly side of the Boston and Maine Railroad location; thence northerly along said Railroad location by a curve of a radius of thirty hundred and fifty-one and fifty-nine hundredths (3051.59) feet, fifteen and two tenths (15.2) feet; thence south $85^{\circ} 31' 05''$ east forty-six and eighty-six one hundredths (46.86) feet; thence north $80^{\circ} 56' 35''$ east one hundred fifty-nine and three tenths (159.3) feet to the westerly line of Tremont street; thence along said Tremont street south $6^{\circ} 14' 10''$ east fifteen and two tenths (15.2) feet to the point of beginning, containing about three thousand and ninety-three (3093) sq. ft.

A certain other lot of land situated on the easterly side of Tremont street, supposed to be owned by the Boston Ice Company, bounded and described as follows: Beginning at a point on the easterly side of Tremont street, said point being three hundred fifty-nine and fifty-seven one hundredths (359.57) feet northerly from the angle in said line near Lake avenue; thence along the easterly line of Tremont street north $6^{\circ} 14' 10''$ west fifteen and two tenths (15.2) ft.; thence north $80^{\circ} 56' 35''$ east eighty-seven (87) feet more or less to Ell Pond; thence southerly along Ell Pond fifteen and five tenths (15.5) feet more or less; thence south $80^{\circ} 56' 35''$ west eighty-four (84) feet more or less to the point of beginning, containing about twelve hundred and eighty-three (1283) sq. ft.

All of the foregoing descriptions are intended to conform to plans drawn by W. Dabney Hunter, Engineer and Superintendent of Public Works, hereto attached and made a part of this order; reserving, however, to the owner or owners of the different parcels of which said

land forms a part, their heirs and assigns, the right to pass and repass on foot and with teams over the above described lands, and all other rights not inconsistent with the laying, making, maintaining and repair of any main or mains or pipes or other necessary appliance of said City of Melrose now or hereafter laid in said lands hereby taken.

By this taking the course of the drain was somewhat changed, and the new route from Vinton street to the pond is 300 feet shorter than the old open ditch, and crossed the Boston & Maine railroad location 300 feet south of the old culvert.

Conferences were had with the officials of the railroad relative to their assuming a portion of the cost, and it was finally agreed that we would perform the work together and share equally in the expenses of that part within the location of the Boston & Maine railroad, the estimated cost of which was \$2000.

Detailed statements of the work done this year, receipts and expenditures, and cost of all improved surface drainage to date follows: see Table X.

RECEIPTS AND EXPENDITURES.

Appropriations :

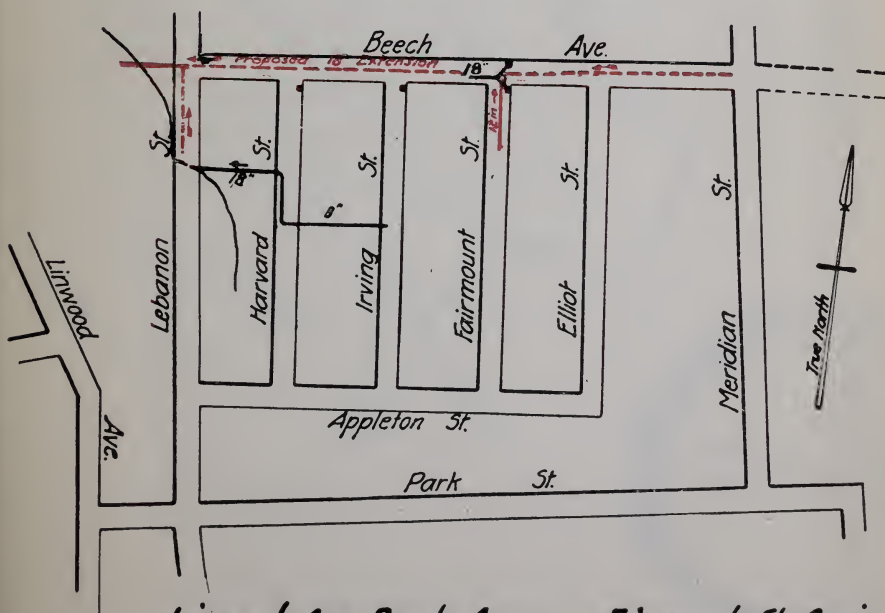
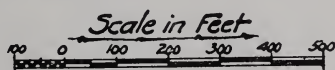
Balance Feb. 1, 1903, Wells drain	.	.	\$615 50
" " Surface drainage	.	.	20,387 67
Bond issue, 1903	.	.	20,000 00
			<hr/>
			\$41,003 17

Expended :

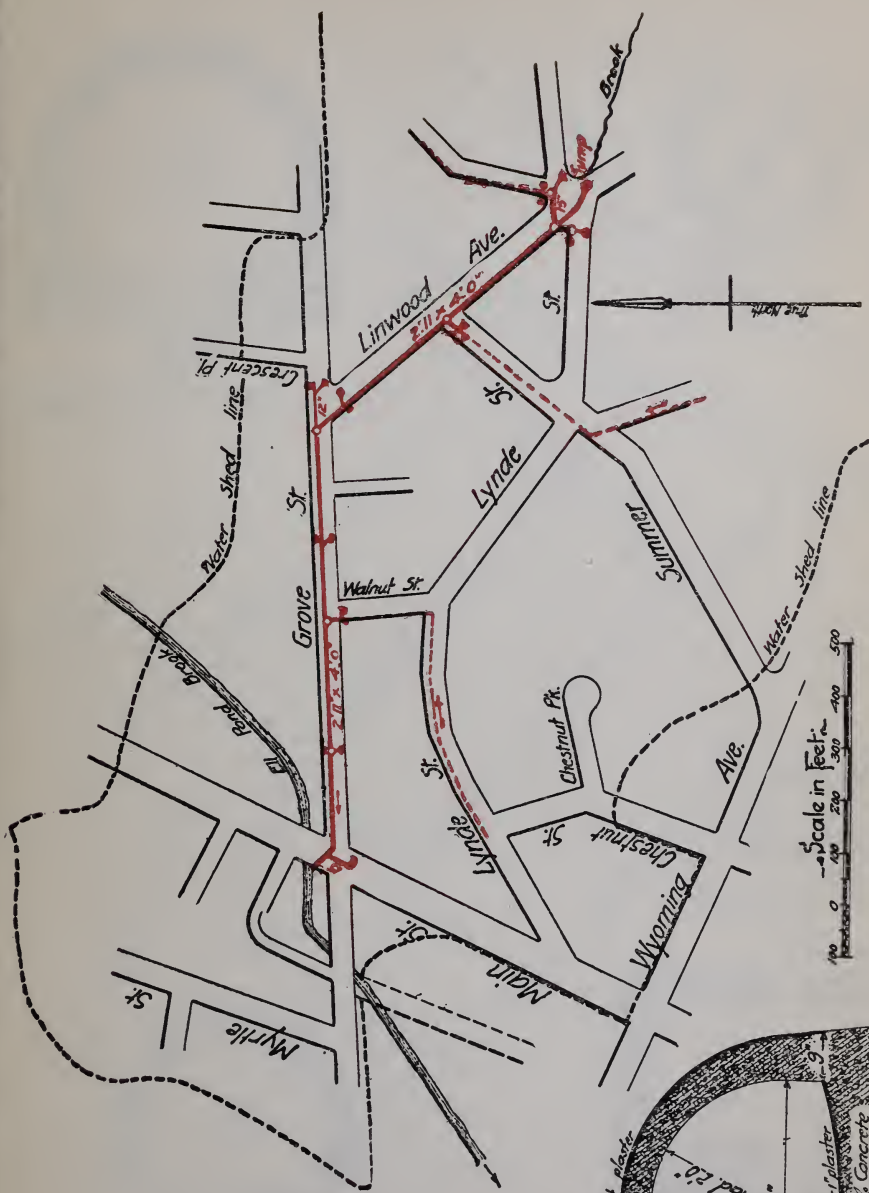
To complete Wells drain	.	.	\$615 50
For award to D. Pratt et al	\$511 78	.	
Recording deeds	.	3 20	
			<hr/>
			514 98
Sand and tests, (to be divided)			138 92
Highland avenue,	(see table)		154 53
Dell avenue,	"		730 15
			<hr/>
Amount carried forward	.		\$3,154 08



Emerson St. Drainage Area... Dell Ave. Drain Built 1903...

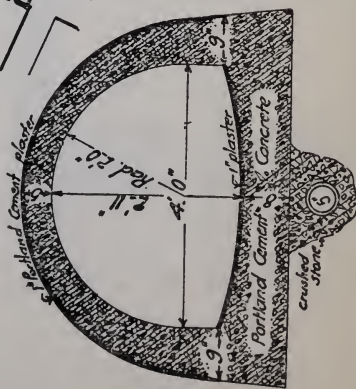


Linwood Ave. Brook Area... Fairmount St. Drain - Built 1903

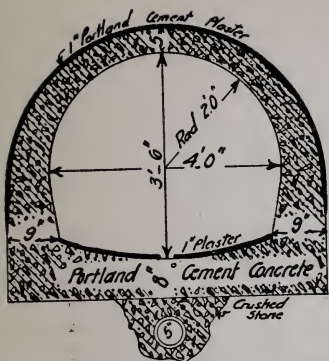


LINWOOD AVE. BROOK DRAINAGE AREA

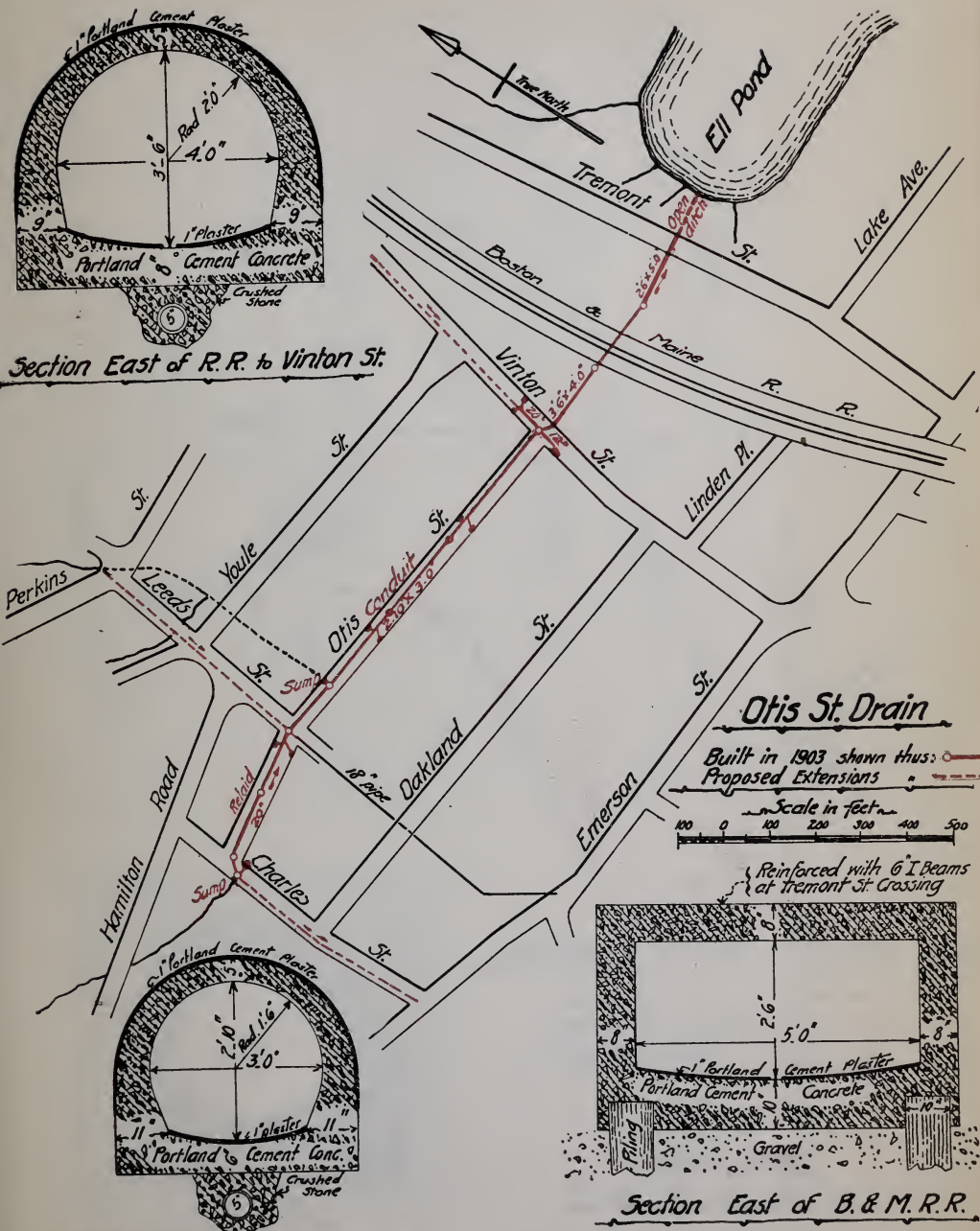
- Drains constructed in 1903 shown thus
- - - Proposed future extensions



Section of Concrete Conduit
GROVE ST. & LINWOOD AVE. 1903



Section East of R.R. to Vinton St.

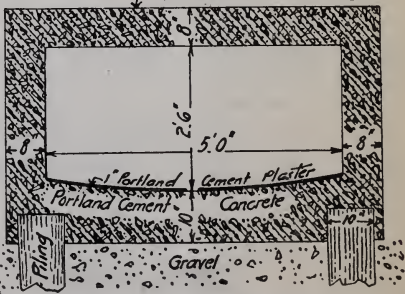


Otis St. Drain

Built in 1903 shown thus: Proposed Extensions

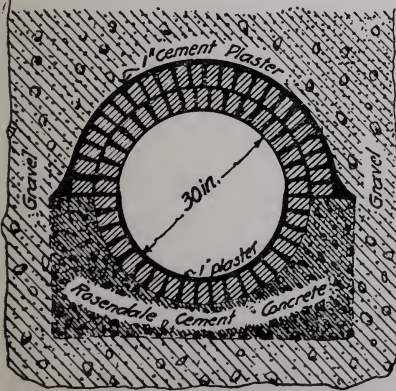
Scale in feet
100 0 100 200 300 400 500

Reinforced with 6" I Beams
at Tremont St. Crossing

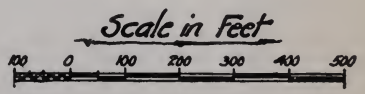


Section East of B. & M. R. R.

Section of Conduit Vinton St. to Leeds St.



Greenwood St. Brook Drainage Area
 improved drains previously built ———
 Drains constructed in 1903 ———
 Proposed future extensions - - -



Section of 30 in. Circular Brick Conduit
 ALBION ST. 1902

TABLE X.

DETAIL BY STREETS OF SURFACE DRAINAGE WORK DONE IN 1903, TOGETHER WITH ITS COST.

LOCATION.	Pipe.										Conduit.		Catch basins.		Manholes.		Cement.		Cu. yds. of earth excavation.	Lin. ft. of piling.	Cost.				
	Size in inches.										Lin. feet.	Cu. yds. masonry.	Sets.	Cu. yds. brickwork.	Frames and covers.	Cu. yds. brickwork.	Portland, barrels.	Rosendale, barrels.			Labor.	Material.	Damages and sundries charged to construction.	Total.	
	5	6	8	12	15	16	18	20	24	Ys.															Slants and bends.
Dell avenue, Upham street to Winter street.....	300	..	46	...	...	10	290	...	..	2	...	...	2	5.25	2	3.60	20	..	210	.....	\$221.81	\$448.24	.....	\$670.05
Winter street, Dell avenue, east.....	...	..	24	...	..	...	...	...	..	1	...	...	1	2.75	..	...	4	..	19	.....	20.00	40.10	.....	60.10
Emerson street, west, near Main street.....	...	..	34	2	...	...	...	...	..	2	...	...	1	2.67	..	...	4	..	25	.....	18.06	68.54	.....	86.60
Fairmount street, Beach avenue, south.....	...	..	16	212	...	...	...	...	..	...	...	...	1	2.00	1	1.80	6	..	142	.....	143.88	128.86	.....	277.74
Franklin street, corner Pratt street.....	...	..	...	...	...	...	...	...	..	...	...	...	1	2.49	..	...	3	..	8	.....	12.38	45.53	.....	57.91
Highland avenue, opposite Henry avenue.....	...	..	...	...	...	...	...	...	..	...	...	...	3	7.75	1	2 10	11	..	18	.....	45.50	109 03	.....	154.53
Lake avenue, corner Tremont street.....	...	..	22	...	...	...	...	...	..	1	...	...	1	2.77	..	...	5	..	18	.....	14.04	75.32	.....	89.36
Linwood avenue conduit,																									
Main street, Ell Pond brook to Grove street. ...	60	..	...	...	...	...	...	...	..	..	59	21.50	..	.....	..	...	25	..	90	.....	166.75	165.00	.....	331.75
Grove street, Main street to Linwood avenue....	850	..	52	...	...	...	...	...	..	4	30	787	4	11.00	3	4.50	400	..	1,140	.....	2,312.01	1,810.81	\$277.80	4,400.62
Linwood avenue, Grove street to Lynde street....	750	10	26	...	...	...	...	...	..	2	20	715	3	7.25	2	3.00	350	..	875	.....	2,050.18	1,542.00	277.80	3,869.98
Branch drains: Main street, Grove street, south....	...	..	6	...	48	...	...	...	..	1	...	...	1	2.75	..	...	4	..	32	.....	34.60	70.08	.....	104.68
Walnut street, Grove street, south....	...	..	26	...	26	...	...	...	..	..	...	...	2	5.50	..	...	7	..	41	.....	49.80	123.64	.....	173.44
Grove street, Linwood avenue, east....	...	..	26	66	...	...	...	...	..	2	...	...	2	5.50	..	...	8	..	63	.....	67.40	107.52	.....	174.92
Summer street at Linwood avenue....	...	..	16	...	...	...	...	...	20	2	...	...	1	2.75	..	...	4	..	35	.....	39.00	81.80	.....	120.80
Lynde street at Linwood avenue....	...	..	72	30	54	...	...	...	..	1	...	...	5	13.75	2	3.00	17	..	120	.....	151.00	413.10	.....	564.10
Laurel street, east of Gooch street.....	...	..	16	...	...	...	...	...	..	..	...	...	1	2.40	..	...	3	..	16	.....	25.94	66.31	.....	92.25
Otis street conduit and main drain,																									
Tremont street to R. R., East Side.....	...	..	...	...	...	...	...	...	..	4	215	106.00	..	.....	1	1.50	180	..	179	2,109	575.00	944.00	425.00	1,944.00
*East Side R. R. to Vinton street.....	...	..	4	...	...	...	...	...	..	..	309	109.00	..	.....	2	3.25	190	..	589	.....	1,014.24	540.00	420.00	1,974.24
Vinton street to Leeds street.....	152	..	22	...	...	...	...	...	..	56	865	229.00	5	15.00	3	4.50	400	13	1,093	.....	2,171.40	1,492.64	93.22	3,757.26
Leeds street to Charles street.....	...	..	...	...	...	...	344	...	..	7	...	...	2	6.00	1	2.00	22	..	305	.....	296.00	434.32	.....	730.32
Charles street at Otis street.....	...	..	...	...	...	...	...	...	..	2	...	...	2	7.00	1	2.00	13	..	18	.....	29.40	120.45	.....	149.85
Branch drains: Vinton street, Otis street, north....	...	..	34	...	...	...	68	...	..	2	...	...	2	6.00	..	...	10	..	92	.....	90.60	182.22	.....	272.82
Vinton street, Otis street, south....	...	..	8	44	...	...	...	...	..	1	...	...	1	3.00	..	...	5	..	35	.....	36.00	75.86	.....	109.86
Wells Drain, Franklin street to Highland avenue....	8	..	64	32	184	...	192	...	..	3	...	...	..	.....	3	5.40	14	..	302	.....	256.54	358.96	514.98	1,130.48
																					\$9,846.53	\$9,442.33	\$2,008.80	\$21,297.66	

* This statement does not include \$1,343.33, cost of work done by Boston & Maine R. R., one half of which, together with \$237.95, one half cost of work done by the City of Melrose under tracks, is charged to the railroad company.

Amounts brought forward	\$2,154 08	\$41,003 17
For Fairmount street, (see table)	277 74	
Laurel street, "	92 25	
Franklin street at Pratt, "	57 91	
Emerson street at Main, "	86 60	
Lake avenue at Tremont, "	89 36	
Linwood avenue and connections, "	10,239 78	
Otis street and connections,	10,102 16	
Otis street and Wolley, (included in receipts)	8 37	
	<hr/>	
	\$23,108 25	

CR.

By allowance on cement and for bags returned	\$1,033 08	
Sundry collections paid treasurer	68 67	
Collection by the treasurer	15 00	
Stock transfers to other divisions	140 00	
Stock to sewer division	553 84	
	<hr/>	
	1,810 59	
	<hr/>	
Net cost		21,297 66
		<hr/>
Balance		\$19,705 51
Stock on hand, 7 catch basins, stone	\$182 00	
Balance in treasury	19,523 51	
	<hr/>	
		19,705 51

NOTE.—Treasury balance \$70.00 less on account of paying out for printing bonds.

VALUE OF IMPROVED SURFACE DRAINAGE CONSTRUCTED TO
JANUARY 31, 1904.

LOCATION.	Size in inches	Length in feet.	Material.	No. of		Date Built.	Cost.
				M. H.	C. B.		
Adams St., north from Russell St....	12	30	Akron pipe	2	1901		\$182.54
Ashland St. near Franklin St.....			.....	1	1902		75.58
Albion St., Greenwood St., Brook E.	30	82	Cir. brick	1	1902		490.80
Bellevue Ave., south from Linden St.	15	27	Akron pipe	2	1901		201.22
" N. E. cor. Emerson St.			.....	1	1900		64.87
Beech Ave., west from Fairmount St.	18	62	Akron pipe	1	4 1901		462.01
Berwick St., near Wyoming Ave.....			.....	1	1901		79.95
Botolph St., east from W. Hill Ave..	15	68	.....	1	2 1901		221.12
Boardman Ave. at Bennett's Pond Bk.	60 x 38	44	Con. culvert		1901		433.65
Cedar Park and B. & M. R. R.							
Vinton St. to Essex St....	20	117	Akron pipe	1	1901		391.01
" " " " "	20	120	Cast iron		1901		
" " " " "	16	284	" "	2	3 1901		
" " " " "	15	24	Akron pipe		1901		
Charles St. at Otis St.....			.....	1	2 1903		149.85
Dell Av., Upham St. to Winter St...	18	298	Akron pipe	2	2 1903		670.05
Emerson St., West, near Main.....	8	34	" "	1	1903		86.60
Essex St., north from Vine St.....	20	144	" "	2	1901		300.99
" cor. of Vine St.....			.....	1	1902		83.83
" at Goss's driveway.....			.....	1	1902		83.84
Fairmount St., Beech Ave., south....	12	212	Akron pipe	1	1 1903		277.74
Franklin St., Main St. to Howie Ct..	15	256	" "	1	1902		313.42
" cor. Pratt St.....			.....	1	1903		57.91
Frost Ave., culvert at brook.....	38 x 60		Concrete		1902		471.96
Green St., north from Linden St....	30	136	Brick	3	4 1901		912.51
" " " " " "	20	20	Akron pipe		1901		
" " " " " "	12	36	" "		1901		
Grove St. on B. & N. St. R. R. tracks..			.....	2	1901		67.24
" at Lebanon and Gooch Sts.	15	30	Akron pipe		1901		471.40
" " " " " "	12	70	" "	2	4 1901		
" Gooch St. to Larrabee St...	15	678	" "	3	8 1902		
" junction with side streets..	12	124	" "		1902		1,381.11
" bet. B. & N. St. R. R. tracks.			.....	3	3 1902		86.68
" east of Linwood Ave.....	12	66	Akron pipe	2	1903		174.92
" Main St. to Linwood Ave..	35 x 48	787	Concrete	3	4 1903		4,400.62
Gooch St., Laurel to Grove St.....	20	306	Akron pipe	1	2 1901		694.46
" " " " " "	12	16	.....		1901		
Hillside Ave. at No. 64.....			.....	1	1901		69.22
Highland Ave. at Henry Ave.....			.....	1	3 1903		154.53
Lake Ave., cor. Tremont St.....	8	22	Akron pipe	1	1903		89.36
Laurel St., Lebanon St., east.....	20	642	" "	4	4 1901		1,777.80
" " " " " "	18	200	" "		1901		
" " " " " "	12	8	" "		1901		
" south east cor. Sixth St..			.....	1	1900		64.03
" east of Gooch St.....	8	16	Akron pipe	1	1903		92.25
Lebanon St., south of Upham St.....			.....	2	1900		127.31
" Grove St. to Rt. of Way..	24	82	Akron pipe	4	2 1901		677.90
" " " " " "	12	246	" "		1901		
" Wash. School to Grove St.	12	152	" "	1	1902		275.54

VALUE OF IMPROVED SURFACE DRAINAGE CONSTRUCTED TO
JANUARY 31, 1904. — *Continued.*

LOCATION.	Size in inches	Length in feet.	Material.	No. of		Date Built.	Cost.
				M. H.	C. B.		
Linden St., Green St. to Bellevue Ave.	30	245	Brick	1	.	1901	\$1,162.66
Linwood Ave., Grove St. to Lynde St.	35 x 48	715	Concrete	2	3	1903	3,869.98
Lynde St., at Linwood Ave.	12	30	Akron pipe	.	.	1903	564.10
“ “ “ “ “ “	15	54	“ “	2	5	1903	
Leonard's Brook Drain		800	Open ditch	.	.	1901	240.39
Main St., at Franklin St.				.	1	1900	61.57
“ near W. Linden St.		60	Con. culvert	.	.	1900	780.02
“ “ “ “ “ “	15	90	Akron pipe	1	3	1900	293.93
“ in R. R. tracks at Dix Pond.				.	2	1901	67.24
“ “ “ “ “ “				.	2	1901	67.24
“ Grove St., south	15	48	Akron pipe	.	1	1903	104.68
“ Ell Pond bk. to Grove St.	35 x 48	59	Brick	.	.	1903	331.75
Melrose St., culvert at brook	56 x 60	...	Con. & stone	.	.	1902	614.42
Otis St., Vinton St. to Leeds St.	34 x 36	865	Concrete	3	5	1903	3,757.26
“ Leeds St. to Charles St.	20	344	Akron pipe	3	2	1903	730.32
Pearl St., at Bennett's Pond brook	38 x 60	41	Con. culvert	.	.	1901	359.65
Pleasant St., at Gould St.				.	1	1901	102.02
Porter St., at Fletcher St. in R.R. tr'ks.				.	1	1901	53.94
Russell St., Adams to Trenton St.	15	394	Akron pipe	2	1	1901	477.42
Right of Way, Tremont St. to R. R.	30 x 60	215	Concrete	1	.	1903	1,944.00
“ “ “ east of R.R. to Vinton St	42 x 48	309	“	2	.	1903	*3,317.57
“ “ “ Lebanon St. n. Laurel..	30	137	Brick	.	.	1901	541.45
“ “ “ Botolph St. to Franklin.	15	357	Akron pipe	2	1	1898	604.49
Summer St. at Linwood Ave.	24	24	“ “	.	1	1903	120.80
Tremont St. at low point				.	1	1901	96.19
Trenton St., Russell St. to brook	15	176	Akron pipe	.	.	1901	184.07
Upham St., southwest cor. Dell Av.	15	6	“ “	.	1	1901	90.02
“ southeast “ “				.	1	1900	74.86
Vinton St., “ Cedar Pk.	12	12	Akron pipe	.	1	1901	110.47
“ Otis St., north	20	68	“ “	.	2	1903	272.82
“ “ south	12	44	“ “	.	1	1903	109.86
Washington St., south of Trenton St.				.	1	1901	60.00
“ “ at Baldwin Ave.				.	1	1901	115.00
West Hill Av., Botolph St. to Chaska Av.	12	364	Akron pipe	2	4	1901	933.01
Wells drain, Albion St. to Franklin St.	20	135	“ “	.	.	1902	724.18
“ Franklin St. to Highland Av	12	32	“ “	3	.	1903	615.50
“ “ “ “ “ “	15	184	“ “	.	.	1903	
“ “ “ “ “ “	20	192	“ “	.	.	1903	
Walnut St. at Grove St.	15	26	“ “	.	2	1903	173.44
Winter St. at Dell Ave.	12	24	“ “	.	1	1903	60.10
Winthrop St., at low point	12	4		.	2	1901	166.92
Wyoming Ave., east of R. R.	15	28		.	1	1901	117.64
Total Cost to February, 1904							\$41,764.02

j. Two manholes built in 1895.

* This amount, \$3,317.57, includes \$1,819.23 cost of work under tracks, of which one half, \$909.61 was paid by the B. & M. R. R. Corporation.

SUMMARY :

1470	feet of 12 inch Akron pipe.
2446	" " 15 " " "
284	" " 16 " iron "
560	" " 18 " Akron "
1968	" " 20 " " "
120	" " 20 " iron "
106	" " 24 " Akron "
3550	" " conduit, brick or concrete.
62	man holes.
117	catch basins.
6	culverts, concrete and I beams.

NOTE. — Nine of the above catch basins are built in the tracks of the B. & N. St. R. R. Co.

SIDEWALKS.

I would recommend that Chapter 25, Section 19, of the ordinance entitled "Prevention of Injurious Practices in Streets," be amended by omitting in the third line the words "the business section of," so that the same will read:

SECT. 19. The tenant, occupant, and in case there be no tenant, the owner or person having the care of any estate abutting on any street in the city within such limits as may be designated by the engineer and superintendent of public works shall, after the ceasing to fall of any snow thereon, or in case snow has fallen from some adjoining building or drifted thereon, cause the same to be removed within eighteen hours. The sidewalks adjoining public buildings or grounds shall be cleared under the direction of the engineer and superintendent of public works.

Contracts.

A contract for furnishing edgestone was made with S. & R. J. Lombard; for furnishing brick with the New England Brick Company; for laying concrete walks with C. L. Hoffman, and for laying granolithic walks with Simpson Brothers Corporation. A canvass of bids follows:

Proposals for furnishing granite curbing and flag-stones to the City of Melrose, Public Works Department, opened April 11, 1903.

	Stevens Granite Co., Milford, N. H.	C. L. Hoffman, Melrose, Mass.	S. & R. J. Lombard, Charlestown, Mass.
Straight curb, 7 inch.....	\$0.58	\$0.57	\$.56 per lin. ft.
Curved curb, 7 inch.....	0.77	.885	.75 " " "
Granite blocks, 2 ft. radius.....	2.60	2.50	2.50 each
" " 3 " ".....	3.75	3.50	3.75 "
Granite flag-stones, 18-inch.....	0.67	.615	.65 per lin. ft.
" " 24 ".....	0.77	.765	.75 " " "

Contract awarded to S. & R. J. Lombard, Charlestown, Mass.

Canvass of bids for furnishing the City of Melrose, Public Works Department, with 55,000 sidewalk brick, opened June 4, 1904. New England Brick Co., 189 Devonshire street, Boston, Mass., \$13.75 per M.

Canvass of bids for laying concrete sidewalks, crossings, and gutters, and for doing all patching, repairing and top-dressing to the same for the City of Melrose, Public Works Department, opened April 11, 1903.

	Norris & Co., Melrose, Mass.	C. L. Hoffman, Melrose, Mass.
New concrete walks (3 coats).....	\$ 0.49	\$.45 per sq. yd.
" " crossings (4 coats).....	.69	.60 " " "
" " gutters (4 coats).....	.69	.60 " " "
Repairing or patching (4 coats).....	.65	.60 " " "
" " " (3 coats).....	.49	.50 " " "
" " " top dressing.....	.24	.28 " " "

Contract awarded to C. L. Hoffman, Melrose, Mass.

MELROSE, MASS., April 13, 1903.

Repair of Present Walks.

The appropriation for this work was \$1000, and the unexpended balance \$18.45, making the total amount available \$1018.45, while the requests for work of this nature amount to over \$7000.

Seven to ten years ago Melrose laid a large number of concrete walks, the most of which at the present time need top-dressing, and although we were able to repair some of the worst places, the appropriation was not large enough to satisfy the demands of the people, and I would recommend that this appropriation be increased, as I believe we should take care of the walks we have in preference to laying new ones.

Following is a detail of the work done and its cost, and a statement of the receipts and expenditures.

TABLE XI.
REPAIRS OF PRESENT WALKS—1903.

LOCATION.	New yds.	Amount @ \$.50.	Repair, yds.	Amount @ \$.45.	Top dressing, yds.	Amount @ \$.25.	Totals.
Vinton street, east side, front of No. 49.	.....	.....	.....	.....	14.77	\$ 4.14	\$ 4.14
" " east side, Brunswick park.	.....	.....	.....	.....	36.60	10.25	10.25
Curcuit street, east and north sides.	.....	.....	.....	.....	172.75	48.37	48.37
" " front of No. 17.	.....	.....	.....	.....	37.87	10.60	10.60
" " " No. 13.	.....	.....	.....	.....	21.77	6.10	6.10
" " " Blake's Block.	.....	.....	.....	.....	38.30	10.72	10.72
" " " No. 77.	.....	.....	17.10	\$ 7.70	26.54	7.43	15.13
Hurd street, west side, Circuit street, west.	.....	.....	70.28	31.63	12.20	3.42	35.05
" " " " east.	.....	.....	74.60	33.57	.....	.....	33.57
Essex street, south side, No. 36 to No. 44.	11.17	\$ 5.59	.....	.....	63.50	17.79	23.38
Essex street, north-west corner Myrtle street.	5.83	2.92	.....	.....	5.83	1.63	4.55
Upham street, south side, Main street to Dell avenue.	11.96	5.83	.....	.....	175.66	49.18	55.01
East Emerson street at Unitarian church.	.....	.....	.....	.....	62.40	17.48	17.48
Franklin street, front of No. 721.	57.60	28.80	.....	.....	112.10	31.38	60.18
" " " No. 783.	8.80	4.40	.....	.....	152.00	42.56	46.96
" " south side, Tremont to Ashland street.	.....	.....	.....	.....	269.40	75.43	75.43
" " north-west, corner Tremont street.	6.61	3.31	.....	.....	6.61	1.85	5.16
" " north-east, corner Tremont street.	6.00	3.00	.....	.....	6.00	1.68	4.68
" " at Whittier school.	.....	.....	114.95	51.73	.....	.....	51.73
Orris street, north side, Warren street, west.	.....	.....	11.10	5.00	57.60	16.13	21.13
Warren street, west side, Orris street, north.	.....	.....	11.60	5.22	113.53	31.79	37.01
Melrose street, south, front No. 194.	.....	.....	.....	.....	59.50	16.66	16.66
Botolph street, south, front of No. 13 and No. 27.	.....	.....	.....	.....	98.72	27.64	27.64

Sidewalk Repairs.

Balance February 1st, 1903	.	.	.	.	\$18 45
Appropriation	.	.	.	.	1,000 00
					<hr/>
					\$1,018 45

Expended.

Repair walk Main street at P. O.,					
labor	.	.	.	\$4 12	
Brick from individual walks				55	
				<hr/>	\$4 67
Concrete repairs. Inspection	\$42 50				
Repairs, C. L. Hoffman, concrete work	.	.	.	937 41	
Repairs, Robert Philpot, concrete work	.	.	.	27 75	
				<hr/>	\$1,007 66
Advertising for bids	.	.	.	5 25	
				<hr/>	\$1,017 58
Balance in treasury	.	.	.	.	87

New Individual Walks.

New individual walks have been constructed in front of 26 estates, 11 of which were concrete, 4 brick and 5 granolithic, and six have curbing only.

The cost to the city of the granolithic walks was the same as for brick, although the work cost twice as much, the abutters paid the difference.

STATEMENT OF COLLECTIONS.

DR.

To total amount assessed	\$1,162 01
--------------------------	---	---	---	---	------------

CR.

By cash paid Treasurer	.	.	.	\$1,124 44	
" estimate cost of walk in front					
of Robert Philpot's, paid Treas-					
urer in 1902	.	.	.	37 57	
				<hr/>	\$1,162 01

INDIVIDUAL SIDEWALKS.

No.	Abutter.	Location.	Cost.	Assessed.
*66	Robert Philpot	76 Dell avenue.....	\$75.39	\$37.70
71	F. P. Shumway.....	25 Bellevue avenue.....	499.75	223.38
72	A. B. Low.....	45 Vinton street	54.74	27.37
73	Mary A. Merrill.....	107 East Emerson street.	133.07	52.72
74	H. C. White.....	37 Beverly street.....	82.28	35.38
75	L. A. Dow.....	Upham & Eighth sts	156.37	51.70
76	A. D. MacLachlan....	Main street, cancelled		
77	John O'Donnell.....	49 Vinton street	71.15	35.58
78	J. B. West	123 Ashland street	74.61	32.24
79	N. P. Jones	160-166 Upham street...	796.20	492.79
80	N. R. Jones	198 Upham street	148.37	92.03
81	C. B. Goss.....	184 Upham street	148.45	92.11
82	F. E. Ellis.....	186 Upham street	140.98	84.31
83	C. A. Bailey.....	62 Summer street	47.87	23.21
84	F. E. Orcutt	143 Upham street	64.54	32.27
85	F. R. Upham	58 Summer street	50.92	24.06
86	D. W. Fitzpatrick....	Dell avenue.....	110.79	55.39
87	F. H. Boyle.....	41 Vinton street	64.80	32.40
88	Mrs. Sarah Philpot...	Dell avenue.....	30.66	15.33
89	G. W. Myrick	134 West Foster street...	65.80	32.90
90	City of Melrose	Whittier schoolhouse	87.91	43.96
91	H. A. Leonard.....	Dell avenue.....	64.85	32.43
92	E. S. Page.....	Dell avenue.....	56.12	28.06
93	F. H. Torrey	152 Upham street	149.64	94.36
94	C. O. Stickney.....	Bellevue Avenue....	85.62	42.81
95	F. R. Upham	Grove st. & Lin. ave.	144.58	72.29
96	Fells Ice Company...	Main street.....	23.03	11.52
			\$3,428.49	\$1,798.30

CR.

By amt. pd. Simpson Brothers Cor. by N. R. Jones,	\$68.52	
“ “ F. E. Ellis,	59.67	
“ “ C. B. Goss,	68.60	
“ “ N. P. Jones,	367.09	
“ “ F. H. Torrey,	72.41	
		\$636.29
		\$1,162.01

NOTE :—Of the cost of Robert Philpot's walk assessed to him, \$37.57 was paid in 1902 and paid to the City Treasurer, as appears by report. The difference in the total cost of the work as shown here and as stated in statement of receipts and expenditures on next page, is due to the fact that the abutters' proportion of the granolithic walk on Upham street was paid by them direct to Simpson Brothers Corporation, but is included here.

RECEIPTS AND EXPENDITURES.

Balance Feb. 1st, 1903			\$494 99
Appropriation			1,300 00
Receipts paid Treasurer by W. D. Hunter			1,124 44
Receipts from other divisions			55
			<hr/>
Expended:			\$2,919 98
For labor as per pay rolls	\$517 54		
“ inspection	2 50		
	<hr/>		\$520 04
For printing application book		\$6 00	
Damage to house Ashland street on			
account blasting for walk		10 00	
For selling curb to C. L. Hoffman		10 74	
“ sods and sodding to A. W. Lynde		24 21	
“ granolithic work to Simpson Bros.		308 86	
“ stock and teams from other divisions		120 24	
“ concreting per contract C.			
L. Hoffman		\$208 63	
“ concreting per contract			
Robert Philpot		30 25	
	<hr/>	238 88	
For curbing to S. & R. I. Lombard, et al		1,274 09	
“ brick to N. E. Brick Co.		229 37	
“ sand to C. L. Hoffman		48 00	
		<hr/>	2,790 43
			<hr/>
Balance in treasury			\$129 55

Continuous Walks.

Only two orders for continuous walks were passed by the Board of Aldermen, one for concrete walk on the west side of Dell avenue from Upham street south, and one for brick walk on the east and west side of Main street from Foster street to Grove street. Both of these walks have been completed, except a small piece of the east side of Main street, which was omitted in order to prevent exceeding the

amount appropriated by the Board of Aldermen; and although they appropriated the amount of the estimated cost, the same was insufficient as after the estimate was made and before the work was done, the price of brick advanced from \$11.00 to \$13.75 per thousand.

The assessments on both of these walks have been levied and submitted to the Collector, and are as follows:

SCHEDULE OF SIDEWALK ASSESSMENTS.

Main Street, east and west side from Grove street to Foster street. Order No. 2150. Brick Walk.

Cost of public work	\$1,031 31	
Cost of private work	75 04	
	<hr/>	\$1,106 35

Amount paid by City :

½ cost of public work	\$515 66	
½ value of old concrete	236 22	
	<hr/>	\$751 88

Amount paid by abutters :

½ cost of public work	\$515 66	
Amount of private work	75 04	
	<hr/>	

\$590 69

Less ½ value of old concrete, 236 22	354 47	\$1,106 35
--------------------------------------	--------	------------

Amount to be paid by abutters, as follows :

WEST SIDE.

Oliver M. Maxwell.

85.10 sq. yds. brick work @ \$1.08	\$91 91	
15.84 " " private walk " "	17 11	
	<hr/>	\$109 02
Credit by ½ paid by city	\$45 95	
" " value old con. @ 50c.	21 27	
	<hr/>	67 22

Amount carried forward	\$41 80
----------------------------------	---------

Amount brought forward			\$41 80
Melrose Athletic Club.			
8.21 sq. yds. driveway @ \$1.32 . . .	\$10 84		
4.52 " " private " @ \$1.32 . . .	5 97		
	<hr/>	\$16 81	
Credit by $\frac{1}{2}$ paid by city	\$5 42		
" " " value old con. @ .50 . . .	2 05		
	<hr/>	7 47	
		<hr/>	9 34
Carter Bros.			
52.20 sq. yds. brick walk @ \$1.08 . . .	\$56 38		
4.40 " " driveway @ \$1.32 . . .	5 80		
2.00 " " priv. driveway \$1.32 . . .	2 64		
25.63 " " " walk \$1.08 . . .	27 68		
	<hr/>	92 50	
Credit by $\frac{1}{2}$ paid by city	\$31 09		
" " " value old con. @ 50c. . . .	14 15		
	<hr/>	45 24	
		<hr/>	47 26
George A. Fuller.			
49.52 sq. yds. brick walk @ \$1.08 . . .	\$53 48		
9.30 " " driveway @ \$1.32 . . .	12 28		
	<hr/>	\$65 76	
Less $\frac{1}{2}$ paid by city	\$32 88		
" " value old con. 50c.	14 71		
	<hr/>	47 59	
		<hr/>	18 17
Nancy L. Fuller.			
57.70 sq. yds. brick walk @ \$1.08, . . .	\$62 32		
Credit by $\frac{1}{2}$ paid by city	\$31 16		
" " " value old con. 50c.	14 42		
	<hr/>	45 58	
		<hr/>	16 74
Carrie L. Spear.			
61.87 sq. yds. brick walk @ 1.08, . . .	\$66 82		
Credit by $\frac{1}{2}$ paid by city	\$33 41		
" " " value old con. 50c.	15 47		
	<hr/>	48 88	
		<hr/>	17 94
Amount carried forward			\$151 25

Amount brought forward \$151 25

A. D. Maclachlan.

101.33 sq. yds brick walk @ \$1.08 \$109 44

7.16 " " private walk @ \$1.08 7 73

 \$117 17

Credit by ½ paid by city . . . \$54 72

" " " value old con. 50c. . 25 33

 80 05

 37 12

Carrie L. Spear.

21.06 sq. yds. brick walk @ \$1.08,

\$22 74

Credit by ½ paid by city . . . \$11 37

" " " value old con. @ 50c. 5 26

 16 63

 6 11

EAST SIDE.

A. W. Dunton.

29.85 sq. yds brick walk @ \$1.08 \$32 24

3.53 " " private walk @ \$1.08 3 81

 \$36 05

Credit by ½ paid by city . . . \$16 12

" " " value old con. @ 50c. 7 46

 23 58

 12 47

Redford M. & Effie A. Rand.

78.11 sq. yds. brick walk @ \$1.08

\$84 36

Credit by ½ paid by city . . . \$42 18

" " " value old con. @ 50c. 19 53

 61 71

 22 65

Mary E. Morton.

40.84 sq. yds. brick walk @ \$1.08 \$44 11

4.50 " " driveway " 1.32 5 94

 \$50 05

Credit by ½ paid by city . . . \$25 02

" " " value old walk @ 50c. 11 33

 36 35

 13 70

Amount carried forward, \$243 30

Amount brought forward		\$243 30	
Est. Chas. A. Larrabee.			
55.95 sq. yds. brick walk @ \$1.08 .	\$60 43		
9.00 " " driveway " 1.32 .	11 88		
	<hr/>	\$72 31	
Credit by ½ paid by city	\$36 15		
" " " value old con. @ 50c. .	16 24		
	<hr/>	52 39	
		<hr/>	19 92
Est. Lucy E. Gordon.			
47.88 sq. yds. brick walk @ \$1.08	\$51 71		
9.00 " " driveway @ \$1.32, .	11 88		
	<hr/>	\$63 59	
Credit by ½ paid by city	\$31 79		
" " " value old con., 50c. .	14 22		
	<hr/>	46 01	
		<hr/>	17 58
F. T. Churchill & W. J. Gordon.			
48.82 sq. yds. brick walk @ \$1.08	\$52 72		
Credit by ½ paid by city	\$26 36		
" " " value old con., 50c. .	12 20		
	<hr/>	38 56	
		<hr/>	14 16
W. J. Tucker.			
69.47 sq. yds. brick walk @ \$1.08	\$75 03		
9.33 " " private " " 1.08	10 08		
	<hr/>	\$85 11	
Credit by ½ paid by city	\$37 51		
" " " value old con., 50c. .	17 37		
	<hr/>	54 88	
		<hr/>	30 23
Sarah C. Burnett.			
57.62 sq. yds. brick walk @ \$1.08	\$62 23		
Credit by ½ paid by city	\$31 11		
" " " value old con. @ 50c. .	14 40		
	<hr/>	45 51	
		<hr/>	16 72
Amount carried forward			\$341 91

Amount brought forward		\$341 91
Friend Brothers.		
43.16 sq. yds. brick walk @ \$1.08	\$46 61	
Credit by $\frac{1}{2}$ paid by city	\$23 30	
" " " value old con. @ 50c. . . .	10 79	
	<hr/>	34 09
		<hr/> 12 52

(*Dell Avenue*, west side near Upham street.
Order No. 1961.)

Concrete Walk.

D. H. Woodward.		
65.53 sq. yds. concrete @ 45c. . . .	\$29 48	
54.75 ft. straight curbing @ 60c. . . .	32 85	
2 corner blocks @ \$2.40	4 80	
Labor	13 85	
	<hr/>	\$80 98
Credit by $\frac{1}{2}$ cost paid by city,	40 49	
	<hr/>	\$40 49
		<hr/>
Total assessment levied in 1903,		\$394 92

RECEIPTS AND EXPENDITURES.

Balance Feb. 1st, as per report	\$190 84	
Collections by J. W. Murray paid to Treasurer, 1902	639 77	
	<hr/>	\$830 61
Less balance transferred to treasury from Main street curbing	5 98	
	<hr/>	\$824 63
Appropriation	500 00	
Transfers from other divisions, stock	39 39	
	<hr/>	
Amount carried forward		\$1,364 02

Amount brought forward		\$1,364 02
Expended:		
Main street brick walk.		
Labor, as per pay roll	\$328 66	
Teaming	46 09	
Stock used	724 47	
Advertising for bids	7 13	
	<hr/>	\$1,106 35
Dell avenue, curb and concrete walk.		
Curbing	\$30 52	
Concreting	33 68	
Stock and teams, high-		
way division	5 25	
Labor, as per pay roll	11 53	
	<hr/>	80 98
Award for land damage, D.		
H. Woodward	75 00	
Stock transferred	39 39	
	<hr/>	1,301 72
		<hr/>
		\$62 30
Cash in treasury	\$36 95	
Brick on hand	25 35	
	<hr/>	\$62 30

STREET WATERING.

On March 23, 1903, the Board of Aldermen passed Order No. 2096, ordering the following named streets to be sprinkled in accordance with Chapter 24 of the city ordinance.

	Lin. ft.
Ashland st., from Melrose st. to Highland av.....	1,241
Adams st., from Wyoming av. to Russell st.....	827
Batchelder st., from Bellevue av. to Porter st.....	869
Bellevue av., from Linden st. to Upham st.....	2,442
Berwick st., from Foster st. to Wyoming av.....	1,230
Botolph st., from Franklin st. to West Hill av.....	373
Cass st., from Grove st. to Foster st.....	505

Cottage st., from Foster st. to Wyoming av.....	1,140
Emerson st., from Poplar st. to Orient av.....	4,773
Essex st., from Emerson st. to Main st.....	1,897
Florence st., from Foster st. to Russell st.....	2,132
Foster st., from Vinton st. to Larrabee st.....	4,784
Franklin st., from Main st. to Stoneham line.....	4,847
Green st., from Main st. to Porter and Lebanon sts.....	2,834
Greenwood st., from Franklin st. to Woodland av.....	1,147
Grove st., from Berwick st. to Larrabee st.....	3,983
Herbert st., from Berwick st. to Myrtle st.....	379
Howard st., from Green st. to M. G. Cochrane's.....	1,244
Howard st., in front of No. 134.....	250
Hurd st., from Cottage st. to B. & M. R. R.....	776
Hillside av., from Bellevue av. to angle in street.....	336
Highland av., from Sargent st. to Cliff st.....	609
Lake av., from Emerson st. to Tremont st.....	1,224
Lebanon st., from Porter st. to Beech av.....	3,459
Lynde st., from Main st. to Summer st.....	1,234
Laurel st., from Lebanon st. to Gooch st.....	664
Main st., from Greenwood line to Malden line.....	11,994
Malvern st., from Potter st. to Meridian st.....	1,325
Meridian st., from Grove st. to Beech av.....	737
Melrose st., from Vinton st. to Belmont st.....	654
Myrtle st., from Grove st. to Emerson st.....	2,227
North av., from Walton pk. to Stoneham line.....	693
Orris st., from Vinton st. to Walton pk.....	1,090
Orient av., from Porter st. to Emerson st.....	1,015
Pleasant st., from Wyoming av. to Ashmont st.....	1,361
Rowe st., from Upham st. to Porter st.....	1,405
Tremont st., from Emerson st. to J. P. Deering's.....	566
“ “ “ Franklin st. to Melrose st.....	847
Trenton st., from Foster st. to Washington st.....	2,560
Upham st., from Main st., to Sewall st.....	2,511
Vinton st., from Franklin st. to Foster st.....	4,880
West Linden st., from Green st. to Main st.....	458
Wyoming av., from Stoneham line to east line Brown est.....	4,446
Walton pk., from Franklin st. to Orris st.....	832
Warren st., from Franklin st. to Orris st.....	614
Youle st., from Vinton st. to Leeds st.....	892
Dell av., from Upham st. to Winter st.....	362
Total.....	86,668

During the year, certain changes were made as follows :

	Feet.
May 18, 1903. Highland av. from Ashland to Cliff sts.....	340
May 18, 1903. Sargent st. from Franklin st., north.....	100
May 18, 1903. Albion st. from Franklin st. to Day st	385
June 1, 1903. Washington st. from Trenton st. to Gould st.....	895
June 1, 1903. Hillside av. from Upham st. to Emerson st.....	445
June 15, 1903. Rowe st. from Porter st. to Green st.....	618
June 15, 1903. Day st. from Franklin st. to Albion st., discontinued.	

Advertisements were inserted in the local papers and bids were received as follows :

CANVASS OF BIDS FOR SPRINKLING ABOUT \$5,000 FEET OF
STREETS IN MELROSE, MASS., FOR THE SEASON OF 1903.

Opened April 1, 1903.

Joseph Gibbons.....	\$47.00	per 1,000 feet	Total, \$3,995.00
Robert Philpot.....	44.00	" " "	" 3,740.00
C. L. Hoffman.....	42.00	" " "	" 3,570.00
Philip S. Keating.....	39.00	" " "	" 3,315.00

The bid of Philip S. Keating was accepted, and he signed a contract and gave a bond of \$1,000 for the faithful performance of the same. By the terms of this contract the city paid for each 1,000 linear feet of street sprinkled during the month of

April	\$0.00	September	\$6.00
May	6.00	October	6.00
June	7.00	November	0.00
July.....	7.00	December ...	0.00
August	7.00		

Notwithstanding that an inspector was employed to take charge of the work, as in previous years, it was not nearly so well done as previously, the contractor claiming that the number of carts furnished him was insufficient to properly do the work, and many complaints were received.

To obviate this difficulty the coming season, the contract will be changed so as to require the contractor to furnish additional carts if necessary. This no doubt will materially

increase the cost of the work; but where the abutters are assessed for the entire cost, every reasonable means should be taken to have it done satisfactorily.

On the line of the streets sprinkled are situated 1,455 estates, on which assessments amounting to \$4,060.07 were levied and certified to the Assessors as follows:

125,947.73 lin. ft. occupied @ 3 cts.	\$3,778 43
28,164.00 " " vacant, " 1 "	281 64
	<hr/>
	\$4,060 07
Less abatements made to date .	3 66
	<hr/>
	\$4,056 41

STATEMENT OF STREET SPRINKLING FUND, JANUARY 31, 1904.

Uncollected Jan. 1, 1900 . . .	\$1,552 97
Amount of net assessment for 1900	3,901 67
" " " " " 1901	3,903 42
" " " " " 1902	3,957 94
" " " " " 1903	4,056 41
	<hr/>
	\$17,372 41
Expended:	
Deficiency, Jan. 1, 1900 . . .	\$1,183 79
Expended 1900 . . .	4,334 60
" 1901 . . .	3,542 51
" 1902 . . .	4,521 65
" 1903 . . .	4,352 05
	<hr/>
	\$17,934 60
Deficiency . . .	\$562 19

NOTE: The difference in the net assessments as given above and those given in previous reports represents the amount of abatements made during the year.

The assessments continue to fall a little short of the expenditures; this has been called to the attention of the Board of Aldermen, and if the order recommended by the committee on highways, water, sewers, etc., is passed by

them, the assessments will be sufficient to pay all the expense, and with economy will in a short time also refund this deficiency.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Assessments levied	\$4,060 07	
Less abatements	3 66	
	<hr/>	\$4,056 41
Expended:		
By amount paid Philip Keating on contract	\$3,483 91	
“ amount paid Philip Keating on sprinkling streets before contract was made	2 25	
“ amount paid highway division, sprinkling	13 00	
“ amount paid for inspection	405 00	
“ “ “ “ assessment schedules	10 00	
“ “ “ “ printing schedules	10 66	
“ “ “ “ advertising for bids	3 00	
“ “ “ “ repair of carts	229 06	
“ “ “ “ valves	4 20	
“ “ “ “ two new standpipes and repairs to old ones	190 97	
	<hr/>	\$4,352 05
Deficiency	\$295 64	

STREET LIGHTING.

There has been no change in the number of lights or in the prices paid the Malden Electric Company. We have 52 arc lights, burned each dark night from dusk to 12.20 a. m., and through the months of November, December, January and February from 5 o'clock a. m. until daylight; and 543 incandescent lights, which are burned from dusk until 12.20 a. m. each dark night.

RECEIPTS AND EXPENDITURES.

Appropriation	\$12,232 00
" Jan. 18, 1903, Order	
No. 3247A	220 20
	————— \$12,452 20
Expended:	
Paid Malden Electric Company, as per contract	\$12,452 20

COLLECTION OF ASHES AND HOUSEHOLD RUBBISH.

The contract for the collection of ashes expired June 28, 1903.

Advertisements were inserted in the local papers and bids received and opened July 6, 1903, as follows :

	C. L. Hoffman, Melrose, Mass.	J. Gibbons, Melrose, Mass.	Robert Philpot, Melrose, Mass.	Philip S. Keating, Melrose, Mass.
January	\$130.00	\$168.00	\$150.00	\$150.00
February	130.00		150.00	150.00
March	130.00	168.00	150.00	150.00
April	130.00	168.00	150.00	100.00
May	130.00	168.00	150.00	100.00
June	70.00	83.50	70.00	100.00
July		80.00	70.00	100.00
August	70.00	80.00	65.90	100.00
September	70.00	80.00	70.00	100.00
October	70.00	85.00	70.00	100.00
November	130.00	170.00	150.00	150.00
December	130.00	170.00	150.00	150.00
Totals	\$1,190.00	\$1,420.00	\$1,395.00	\$1,450.00

As the bids of C. L. Hoffman and J. Gibbons were informal, the contract was awarded to Robert Philpot.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Balance February 1, 1903	\$877 00
Appropriation	800 00
	<hr/>
	\$1,677 00
Expended :	
Robert Philpot, contract 1902	\$840 00
Printing circulars	32 75
Distributing circulars	29 34
Advertising	1 50
85 per cent. of contract price paid	
Robert Philpot, 1903	616 25
	<hr/>
	\$1,519 84
	<hr/>
Balance in Treasury	\$157 16

PUBLIC BUILDINGS AND GROUNDS.

Under this head is grouped all work and expenditures by the department on the public property of the city not included in the other divisions.

City Hall.

This building has had the usual care and minor repairs, and also two rooms have been furnished with new steel ceilings.

For the purpose of better ventilation, the Aldermanic Chamber has been supplied with an electric fan connected with a direct fresh air inlet and outlet, in such a manner that the fresh air is passed over a radiator and discharged at the top of the room and drawn by the fan through a register in the floor and forced outside, in accordance with Order No. 2188, passed by the Board of Aldermen, June 15, 1903, at an expense of \$325.00.

LIST OF ENGAGEMENTS OF CITY AUDITORIUM.

When and for what used.	Free Use.		Expense Only.		Full Charge.		Total.
	Times.	Amt.	Times.	Amt.	Times.	Amt.	
Rehearsals . . .	0	.....	1	\$3.00	3	\$30.00	\$33.00
Afternoons . . .	0	.....	5	11.53	3	30.00	41.53
Evenings	10	.....	6	48.56	21	556.00	604.56
Totals	10		12	\$63.09	27	\$616.00	\$679.09

STATEMENT OF COLLECTIONS.

DR.

To rent of City Auditorium, 1902 . . .	\$679 09	
" " " " " "		
(uncollected)	30 00	
To rent of City Auditorium, 1901,		
uncollected	20 00	
	<hr/>	\$729 09

CR.

By cash paid Treasurer, rent of City		
Auditorium, 1903	\$649 09	
Amount uncollected, rent of City		
Auditorium, 1903, Nos. 49 and 54 . . .	30 00	
Amount uncollected, rent of City		
Auditorium, 1902, No. 21	10 00	
Abatement made by Board of Ald-		
ermen, No. 21	20 00	
Amount uncollected, rent of City		
Auditorium, 1901	20 00	
	<hr/>	\$729 09

RECEIPTS AND EXPENDITURES.

Appropriations:	
Janitor service	\$750 00
Heating	300 00
	<hr/>
Amount carried forward	\$1,050 00

Amount brought forward	\$1,050 00	
Lighting	800 00	
Contingent	\$500 00	
Contingent, order 2286	25 00	
Transferred from janitor service, order 2347	5 79	
	<hr/>	530 79
		<hr/>
		\$2,380 79
Expended:		
Transferred by order 2347	\$5 79	
Paid C. J. Wing, services as janitor	720 00	
Extra help moving furniture	3 50	
For moving piano off and on stage	13 50	
	<hr/>	\$742 29
S. E. Benson & Co., coal		299 29
Malden & Melrose Gas Light Co.	\$119 13	
Malden Electric Co.	585 68	
	<hr/>	704 81
Paid for concreting basement	\$111 90	
Repairs water, gas and steam pipes	65 74	
Repair boiler	24 77	
Repairs and carpenter work	50 56	
Steel ceiling, guard room	45 00	
“ “ P. W. office	49 00	
Painting ceiling and walls	61 50	
Repair tower clock	24 61	
Fire extinguishers	53 40	
Supplies and sundries	40 53	
Moving piano	3 75	
	<hr/>	530 76
		<hr/>
		2,277 15
Balance in treasury		\$103 64

To credit janitor services	\$7 71	
Heating	71	
Lighting	95 19	
Contingent	03	
	<hr/>	\$103 64

Park Maintenance.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Appropriation		\$100 00
Expended:		
Labor, as per pay rolls	\$2 50	
A. W. Lynde, labor and teams	57 50	
Bugbee & Barrett, fertilizer	6 00	
C. Casey, filling vase City Hall	26 00	
	<hr/>	92 00
Balance in treasury		<hr/> \$8 00

Street Bounds.

Balance, February 1, 1903	\$64 79
No expenditures in 1903.	

Warren School Plumbing.

On June 15, 1903, the Board of Aldermen, on recommendation of the Board of School Committee, passed Order No. 2163 appropriating \$800 for the purpose of revising the plumbing at the Warren school house and connecting it with the sewer, and directed that the same be done under the direction of the Engineer and Superintendent of Public Works. Advertisements were inserted in the local papers, and bids for doing the work received as follows:

Brock Brothers, Melrose, Mass.	\$745 00
Salt & Allmon, " "	680 00

The contract was awarded to Salt & Allmon and the work was completed, and so far as I know, is satisfactory.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Appropriation		\$800 00
Expended:		
Advertising	\$3 75	
Connecting with common sewer.		
Labor	\$22 44	
Stock	9 62	
	<hr/>	32 06
Renewing water service.		
Labor	\$5 44	
Stock	26 65	
	<hr/>	32 09
Salt & Allmon, as per contract	680 00	
	<hr/>	747 90
		<hr/>
Balance in treasury.		\$52 10

Life Saving Apparatus.

Balance, February 1, 1903	\$22 73
Expended:	
Labor, as per pay roll	1 00
	<hr/>
Balance in treasury	\$21 73

City Scales.

Balance, February 1, 1903	\$14 37
No expenditures in 1903, but there was collected and paid Treasurer for fees, \$13 60	

Heating and Ventilating Aldermanic Chamber.

Appropriation, Order No. 2188	\$325 00
Expended:	
W. F. Crowell, as per contract	325 00

ENGINEERING DIVISION.

Good results from the work done by this important branch of the department show more and more each year, and there is no expenditure from which the city receives larger or more lasting benefits. Every effort has been made to do all the work well and systematically, and at the same time economically.

That the work is economically done is clearly shown by the comparison of the money expended and the cost of engineering, supervision and inspection. The total of all money expended by the Public Works Department is \$141,564.05, while the cost of engineering, etc., is only \$2,435.56, or about 1.7 per cent., which is not only unusually, but extremely low, as all engineers, in estimating the cost of public work, allow from 10 to 15 per cent.

A summary of the work done by this branch of the department follows:

Street Numbering.

21 doors re-numbered.

40 new numbers added.

Total numbers used—150.

For Highway Division.

Street Lines and Grades for Construction, Gutters, Crossings, etc.

Beech av., gutters.

Dell av., grading and gutters.

East Foster st., gutters.

Farwell av., grading.

Franklin st., gutters and crossing.

Howard st., crossing.

Hurd st., macadamizing.

Lebanon st., gutters.

Linwood av., crossing.

Main st., at ice-house, crossing.

Melrose st., macadamizing.
 Malvern st., gutters.
 Pleasant st., crossing.
 Wyoming av., crossing

For Sewer Division.

Streets sewered, lines and grades given, quantities computed, estimates rendered, plans and profiles made.

CONSTRUCTION.

Richardson rd., Henry av. to Renwick rd.	1,115 feet.
Highland av., Main st. to Hesseltine av.	622 "
Ferdinand st., Franklin st. north	747 "

PROPOSED.

Burrell st., Linden st. east	325 feet.
Union st., Tremont st. east to angle	365 "

PRIVATE SEWERS.

20 Belmont place. F. W. Hunt.
 970 Franklin st. J. H. Lawson.
 Main street. New Methodist church.
 39 Lake av. Mrs. Jeanette Campbell.

For Water Division.

Lines for construction spiked out, estimates of cost made, drawings and blue-prints of special castings furnished.

	Feet.
Apthorp road, north end.....	47
Avon street, Elm to Green street.....	376
Ashland street, Alpine street to Richardson road.....	303
Ashland street, extension Richardson road north.....	218
Circuit street at Hurd street.....	40
Charles street at Otis street.....	60
Cedar Park, north and south.....	2,310
Elm street, Linden to Howard street.....	1,087
Emerson street, B. & M. R. R. to Poplar street.....	1,061
Herbert street, Berwick to Myrtle street.....	342
Howard street, Green to Elm street.....	278
Lake avenue, Emerson to Tremont street.....	1,192
Linden street, Porter to Burrell street.....	651
Mountain avenue, Lebanon street north.....	524
Oakland street, Vinton to Charles street.....	1,158
Orris street, Vinton to Warren street.....	728
Perkins street, Vinton street to Sewall woods road.....	158
Porter street, Main to Linden street.....	1,543
Vinton street, Maple to Orris street.....	3,968
Vista street, service.	
Warren street, Orris to Franklin street.....	612
Wyoming avenue, Cleveland street to Lynde avenue.....	260
Youle street, Vinton to Leeds street.....	893

Estimates for proposed relay, see table No. 3.

Water service locations.

General water plan to date.

For Sidewalks.

1. CURBING.—Plans and profiles made; lengths and radii computed; lines and grades given; work inspected and measured.

Location.	Linear Feet.		Description.
	Straight.	Curved.	
Ashland st. at No. 123.....	60.00	.....	Individual
Bellevue av. at No. 174.....	60.00	.....	"
" " " " 25.....	296.03	12.57	"
Beverly st. at No. 37.....	62.12	15.53	"
Dell av. at No. 68.....	45.00	.....	"
" " east side, Upham st. to No. 73.	245.00	.....	Continuous
Emerson st. at No. 107.....	76.00	.....	Individual
Foster st., northeast cor. at Dell av....	12.00	7.64	Highway
" " west, at No. 134-140.....	75.30	.....	"
Franklin st. at Whittier school.....	136.00	12.60	Individual
Grove st. at Nos. 119, 121 and 131.....	135.00	.....	"
Green st. at Howard st.....	12.00	.....	Highway
Hurd st. cor. Circuit st.....	24.00	8.00	"
Linwood av., cor. Grove st.....	55.90	34.01	"
Lebanon and Malvern sts., corners....	24.00	26.16	"
Main and Grove sts. (reset).....	30.00	.....	"
Main st. at ice houses.....	50.00	12.00	Individual
Summer st. at Nos. 58 and 62.....	100.00	.....	"
Tremont and Franklin sts., corners....	24.00	25.00	Highway
Upham st. at Nos. 152 to 198.....	651.00	.....	Individual
" " " No. 143.....	67.00	12.60	"
" " " 39.....	67.00	.....	"
Vinton st., No. 41 to 49.....	187.67	21.10	"
Winter " at Dell av.....	12.00	9.75	Highway
Totals.....	2,506.72	196.96	

2. CONCRETE.—(Under contract with C. L. Hoffman.)
Laid out, measured and estimates rendered.

	Quantities in sq. yds.			Totals.
	Repairs.	New work.	Top Dressing.	
For Highway Division.....	177.40	44.21	189.55	411.16
" Sewer ".....	47.53	.....	1.00	48.53
" Water ".....	154.34	.....	26.87	181.21
" Surface Drainage.....	42.94	.....	.....	42.94
" Continuous Walks.....	.....	74.85	.....	74.85
" Individual Walks.....	.....	530.65	.....	530.65
" Repairs to present walks..	390.40	342.69	2,213.91	2,947.00
Totals.....	812.61	992.40	2,431.33	4,236.34

3. BRICK WALKS — Line and grade given. Data furnished.

	Sq. yds.
Main street, Foster street to Grove street, east and west sides	1,012.90
Bellevue avenue, at No. 25.....	192.95
“ “ “ No. 174.....	40.00
Emerson street, at No. 107.....	43.82
Upham street, at No. 127, corner Eighth street.....	117.73
Total	1,407.40

4. GRANOLITHIC WALKS.—Line and grade given. Data furnished.

Upham street, from No. 152 to No. 198..... 409.64 sq. yds.

For Surface Drainage.

Surveys, computations and plans made, lines and grades given for all work constructed during the current year, viz:
Charles street, sump at Otis street.

Dell avenue, Upham to Winter street.

Fairmount street, Beech avenue south.

Grove street, Main street to Crescent place.

Highland avenue, at Henry avenue.

Linwood avenue, Grove street to Lynde street.

Lynde street, at Malvern street and Linwood avenue

Laurel street.

Lake avenue, corner Tremont street.

Main street, north and south of Grove street.

Otis street, Vinton street to Charles street.

Right of way, Tremont street to Vinton street.

Summer street, Linwood Avenue east.

Vinton street, north and south of Otis street.

Wells drain, right of way, Albion street, via Franklin street
to Highland avenue.

Walnut street.

Winter street.

West Emerson street, near Main street.

Miscellaneous

Levels on Spot Pond brook.
Levels for drain on Sanford street.
Levels on Greenwood street brook, plan and profile.
Estimates for proposed work in 1904.

For Cemetery Department.

36 lots surveyed, plotted, contents figured, and 3 blue print
copies of each furnished.
Levels for proposed driveway.
General plan revised to date.

For Assessing Department.

Revision of sewer assessments as called for.
Schedule of assessments for street watering.
Schedule of assessments for all sewers unassessed, 1901-2-3.
Schedule of assessments for new sidewalks and curbing laid
in 1903.

For Assessment Plans.

New houses located and plotted.
Renumbering done.
Lot revision as known.
Private sewers plotted.
New sewer assessments recorded.
Sewers built in 1903 plotted.

For Abutters.

Street lines and grades given.
Adams street, corner Wyoming avenue for planting.
Franklin street, at No. 970, for grading.
Ashland street, at No. 300 Franklin street, for retaining wall.
Heyward avenue, at Mrs. Ferris' for grading.
Bellevue avenue, at 174, for grading.
Main street, at Methodist church for building.
Vinton street, at Nos. 115 and 121, for fence.

For New Public Library.

Batter boards set.

Driveways staked out.

Grading plan and curb details furnished.

Blue prints of same for architect.

For Whittier Schoolhouse.

Grading plan of school lot.

Levels and lay out for wall and curbing.

Takings.

Burrell street, for proposed sewer.

Fairmount street, Charles Miller, for drain.

Grove street, corner Linwood avenue, for highway.

Highland avenue, east of Main street, for sewer.

Otis street drain, Benson, Finnegan, White and Boston Ice Co.

Passageway, York terrace to Ferdinand street (proposed).

Sylvan street, proposed widening.

Union street, for proposed sewer.

Vinton street, corner Cedar park, for highway.

For Record Plans.

Ashland street, Franklin street to Melrose street.

Beverly street, Rowe street to Porter street.

Dell avenue, Upham street to Grove street.

Farwell avenue, 100 feet.

Folsom avenue, Swain's Pond avenue east, 600 feet.

Grove street, Berwick street to Lebanon street.

Hurd street, Wyoming avenue to Florence street.

Laurel street, Larrabee street, east to Sixth street.

Main street, Grove street to Emerson street, and Porter street to Franklin street.

Melrose street, Albion street to B. & M. R. R.

Otis street, Vinton street to Leeds street.
 Pratt street.
 Sylvan street, Main street to Linwood avenue.
 Summer street, Linwood avenue to Lynde street.
 Winthrop place.
 50 grade plans revised to date.

MISCELLANEOUS.

Electric light plans to date and indexed.
 40 ward maps showing areas within 1 mile of each depot.
 450 blue-prints taken.
 Plan of proposed First Fire District.
 Plan of proposed improvement at Highland depot.
 Plan of estate of M. S. Page, Lake avenue.
 Data for Metropolitan Water Board.
 Grade for B. & N. St. R. R., Main street, from Essex street
 to Emerson street.

CLASSIFIED DIVISION OF THE WORK OF THE ENGINEERING
OFFICE REDUCED TO MONEY.

Highway Division, construction, lines and grades,	\$164 42
Sidewalk " " " " "	95 79
Water " " " " "	174 35
Sewer " " " " "	191 78
Surface Drainage, " " " " "	416 49
Record plans	368 75
Estimates and computations	141 96
General office - deed records, etc.	294 95
Tracings	43 75
Assessments and assessment plans	95 93
Street sprinkling,	12 75
For abutters, street line or grades	7 69
Wyoming Cemetery	43 09
Sylvan street, special survey	74 19
Street numbering,	8 55
Whittier School-house lot	20 38
New Public Library,	24 38
Total	<hr/> \$2,179 20

RECEIPTS AND EXPENDITURES.

Appropriation, salaries . . .	\$2,800 00	
Contingent . . .	300 00	
	<hr/>	\$3,100 00
Expended:		
Salaries, as per pay rolls . . .	\$2,179 20	
Supplies, as per invoices . . .	256 36	
	<hr/>	\$2,435 56
Balance in treasury:		
Account of salaries . .	\$620 80	
“ “ contingent . .	43 64	
	<hr/>	\$664 44

In conclusion, I wish to thank you for your many courtesies, the Board of Aldermen for their consideration, and all of the assistants and employees of the department for their co-operation. Respectfully submitted,

W. DABNEY HUNTER,

Engineer and Supt. of Public Works.

Melrose, Mass., February 1, 1904.

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ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF MELROSE

FOR THE

YEAR ENDING JANUARY 31, 1904.

MELROSE:
THE A. W. DUNTON PRINTING CO.
1904.

IN THE SCHOOL COMMITTEE,

MELROSE, April 4, 1904.

Voted,— That the annual report of the Superintendent of Schools be accepted and printed as the report of the School Committee.

F. H. NICKERSON,
Recording Secretary.

SCHOOL CALENDAR FOR 1904.

WINTER TERM.

Begins January 4 and closes April 1. Vacation, one week.

SPRING TERM.

Begins April 11 and closes June 24. Vacation, eleven weeks.

FALL TERM.

Begins September 13 and closes December 23. Vacation, one week.

HOLIDAYS DURING TERM TIME.

Every Saturday, Washington's Birthday, Patriots' Day, Memorial Day, June 17th, and Thanksgiving Day, with the half-day preceding and the day following it.

SCHOOL COMMITTEE FOR 1903.

MEMBERS.

Fred L. Wood, 89 East Foster street.....	Term expires Jan. 1904
Edward B. Marsh, 15 Cass street.....	“ “ “ 1904
Bessie B. Dearborn, 315 Main street.....	“ “ “ 1904
William D. Stewart, 21 Woodland avenue.....	“ “ “ 1905
Edward W. Frentz, 76 Cottage street.....	“ “ “ 1905
Sarah A. Day, 45 Ashland street.....	“ “ “ 1905
Susan F. Flanders, 76 Rowe street.....	“ “ “ 1906
George H. Hill, 16 Summer street.....	“ “ “ 1906
John E. Marshall, 76 Lynde street.....	“ “ “ 1906

ORGANIZATION OF COMMITTEE.

William D. Stewart, Chairman.

Edward B. Marsh, Secretary.

MEETINGS OF COMMITTEE.

Regular meetings of the School Committee are held in the Committee Room, High School Building, on the second and fourth Tuesdays of every month except July and August, at eight o'clock, p. m.

SUPERINTENDENT OF SCHOOLS.

FRED H. NICKERSON, A. M., 492 Lebanon street.

Office : High School Building.

Office Hours : 8 to 9 a. m. on school days, and 4 to 5 p. m. on Monday, Tuesday, Thursday and Friday.

Telephone : 153-2 Melrose.

SUPERINTENDENT'S CLERK.

Helen L. Burr, 119 Wyoming avenue (until July, 1903).

Rosetta M. Pendleton, 179 Trenton street (since August, 1903).

SUB-COMMITTEES.

Accounts, Finance and Estimates.

Mr. Hill,	Mrs. Flanders,	Mr. Frentz.
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Courses of Study and Text-Books.

Mrs. Dearborn,	Mr. Marsh,	Mr. Hill.
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Supplies and Printing.

Mr. Wood,	Mr. Hill,	Mrs. Flanders.
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Special Studies.

Mrs. Dearborn,	Mrs. Day,	Mr. Frentz.
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Rules and Regulations.

Mr. Marsh,	Mr. Wood,	Mrs. Day.
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School Houses and Janitors.

Mr. Marshall,	Mr. Hill,	Mr. Marsh.
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Teachers and Salaries.

Mrs. Day,	Mr. Marshall,	Mr. Wood.
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High School.

Mrs. Flanders,	Mr. Marsh,	Mr. Frentz.
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Visiting Committees.

HIGHLANDS.

Mr. Stewart,	Mrs. Day,	Mr. Frentz.
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EAST SIDE.

Mr. Marsh,	Mr. Wood,	Mrs. Flanders.
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CENTRE.

Mrs. Flanders,	Mr. Hill,	Mrs. Day.
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WYOMING.

Mr. Marshall	Mrs. Dearborn,	Mr. Wood
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REPORT OF THE

SUPERINTENDENT OF SCHOOLS.

To the School Committee of Melrose:

LADIES AND GENTLEMEN:—The following report is the fourteenth in the series of annual reports by the Superintendent of Schools in Melrose, and the sixth that it has been my privilege to submit to this Board.

In order that the development of the school system of the City, so far as it can be shown by statistics, may be easily followed, I have adopted in the preparation of statistical tables for the present report the general plan used in my previous reports.

STATISTICAL TABLES.

TABLE 1. REGARDING SCHOOL HOUSES AND SCHOOL LOTS.

NAME OF SCHOOL.	LOCATION.	Date of Erection.	Material of which Built.	Method of Heating.	Modern Ventilation.	No. School Rooms.	No. Rooms in Use Dec., 1903.	No. Rooms not in Use Dec., 1903.	Estimated Value.	SCHOOL LOTS.		Combined Value of School Houses and Lots.
										Size in Square Feet.	Estimated Value.	
High	Main St	1898	Brick & Stone	Indirect Steam	Yes	16*	15§	1	\$100,000	116,385	\$58,200	\$158,200
Franklin	Franklin St.	1897	Brick ...	"	"	8*	8	0	30,000	21,752	6,575	36,575
Washington	Lebanon & Lynde Sts.	1897	"	"	"	8*	9†	0	30,000	30,794	4,000	34,000
Horace Mann	Grove & Myrtle Sts.	'83-'91†	Wood ...	Hot Air	"	8	8	0	20,000	26,361	4,475	24,475
D. W. Gooch	Foster & Florence Sts.	'86-'93†	Brick ...	Indirect Steam	"	8	8	0	25,000	27,815	4,450	29,450
Lincoln	Wyoming Ave.	1897	"	"	"	8*	8	0	30,000	27,604	6,900	36,900
Mary A. Livermore	Main St.	1891	Brick & Stone	Hot Air	"	4	4	0	12,000	26,555	6,650	18,650
Warren	Warren St.	1893	Wood ...	"	"	4	4	0	14,000	18,575	2,300	16,300
Winthrop	Eleventh & First Sts.	1891	"	"	"	4	4	0	11,000	26,544	1,600	12,600
Sewall	Upham St.	1875?	"	"	"	4	4	0	8,000	14,748	7,375	15,375
Whittier	Franklin & Pratt Sts.	1884	"	"	"	4	4	0	7,500	15,000	3,000	10,500
Converse	Fells	1886	"	"	No	2	1	1	5,000	21,017	1,050	6,050
Ripley	Swains Pond Ave.	1886	"	"	"	1	1	0	2,200	14,567	575	2,775
West Side	Franklin St.	1860?	"	"	"	1	0	1	1,000	11,880	3,325	4,325
Totals						80	78†	3	\$295,700		\$110,475	\$406,175

* These buildings have an assembly hall in addition.

† Enlarged.

‡ Assembly hall used as a room.

§ One of these rooms is used temporarily by the School Committee.

COMMENT ON TABLE I.

Comparison with a similar table in the report of the previous year shows that there were five more school rooms in use December, 1903, than in December, 1902. It appears also that, if the school population of the City should continue to increase at the rate it has grown during the past few years, the time is not far distant when the capacity of our present buildings will be inadequate for our needs. It is well, however, in this connection to bear in mind that a movement has been started for the establishment of a Catholic parochial school in the City. If that purpose should be accomplished, the immediateness of the need for increased school accommodations in our public schools would undoubtedly be somewhat postponed.

TABLE II.

NUMBER OF TEACHERS IN THE DIFFERENT DEPARTMENTS,
DECEMBER, 1903.

	High Gr. X-XI-XII- XIII.	Grammar Gr. V-VI-VII- VIII-IX.	Primary Gr. I-II-III IV.	SPECIAL TEACHERS.			Totals
				Music.	Drawing.	General Assistant.	
Males.....	6	2	0	1	1	..	10
Females ..	9	33	42	..	..	1	85
Totals ..	15	35	42	1	1	1	95

COMMENT ON TABLE II.

Comparison of this table with a similar one in the previous year's report reveals an increase of five in the number of teachers employed, December, 1903, over the number in service, December, 1902.

Four of the additional teachers have been required by the increased attendance of pupils and the other has been employed as a general substitute to supply vacancies occasioned by temporary sickness of regular teachers and, when not thus employed, to assist in overcrowded rooms or wherever any special need might exist.

TABLE III.
NUMBER OF PUPILS IN THE DIFFERENT GRADES, DEC. 1903.

SCHOOLS.	Independent Kindergarten,	Grade I.	Grade II.	Grade III.	Grade IV.	Grade V.	Grade VI.	Grade VII.	Grade VIII.	Grade IX.	HIGH SCHOOL.					Totals.
											Grade X.	Grade XI.	Grade XII.	Grade XIII.	Post-graduate.	
High...											156	112	92	60	6	426
Franklin						81	69	59	64	48						321
Washington		72	45	39	19	31	51	47	39	80						423
Lincoln		39	38	40	43	24	40	29		44						297
Mann		33	32	38	40	52	51	44	40							330
Gooch		55	36	38	36	35	44	39	39							322
Livermore						29	66	46	38							179
Warren		27	33	37	31											128
Winthrop		33	25	31	24	18										131
Sewall		40	40	49	40											169
Whittier		44	54	43	43											184
Converse		12	12	9												33
Ripley		9	10	13												32
Totals, Dec., 1903. ...		364	325	337	276	270	321	264	220	172	156	112	92	60	6	2,975
Totals, Dec., 1902. ...		324	353	276	243	337	277	247	191	180	150	101	78	50		5,212
Totals, Dec., 1901. ...		356	263	268	317	299	259	231	200	166	114	92	54	44		9,2672
Totals, Dec., 1900. 132		316	268	304	309	270	255	215	202	139	116	61	50	40		9,2686
Totals, Dec., 1899. 140		316	320	289	277	265	242	213	158	122	88	59	47	46		7,2589

COMMENT ON TABLE III.

A comparative study of the enrollment in the different grades in December of 1899 and 1903 shows that the combined registration in the High School and the three upper grammar grades during the past four years has increased 46%. During the same period the combined registration in the first six grades has increased 11%. In other words the gain per cent. during the past four years in the number of pupils in attendance upon the seven highest grades of the system is approximately four times that in the six lowest grades.

The population of the City during this period has increased practically 8%.

It would seem, therefore, that something in the management of our school system has operated to carry our young people farther in their school course than they were accustomed to go formerly.

It is not difficult to understand that this rapid filling up of our upper grades tends to raise the per capita cost of education in the City.

To the individual who sees in this increased attendance in our upper grades only the fact that school expenses have been considerably increased thereby, it may appear bad policy for the school administration to encourage young people to carry their school work to the fullest possible length, but to one who has at heart the highest interests of the children and of the community the above showing brings a sense of satisfaction.

It is practically impossible to determine with any degree of accuracy the increased value from an economical point of view that comes to a community in any individual case through additional educational training, but careful study of data for the country at large has demonstrated beyond reasonable doubt that the productive power of an individual, so far as dollars and cents are concerned, is, as a rule, distinctly enhanced by increased educational advantages; and, from the larger point of view, it goes without proof that in proportion as one's breadth of view and sympathy with higher interests are increased by education is he a more desirable element in civic life.

It is unfortunate when a community has in its midst people who, in their consideration of policies relating to the public good, cannot see beyond the immediate aspect of the matter as it appears in terms of dollars and cents. It is still more unfortunate when such individuals occupy positions where action growing out of their belief may interfere with the advancement of the highest community interests. Unquestionably it is the duty of every one concerned in the advocacy of policies requiring the outlay of public money to bear in mind that economy is a virtue; but it is wise, also, to bear in mind that breadth of view is needed to determine what is true economy in many cases, and that there is an economy which in the end impoverishes.

TABLE IV.

AVERAGE NUMBER OF PUPILS PER TEACHER IN THE AVERAGE MEMBERSHIP OF THE SCHOOLS, DECEMBER, 1903.

GRADES.									High School.	Summary for All Grades.
I	II	III	IV	V	VI	VII	VIII	IX		
19	33	34	35	34	40	38	37	22	28	32

COMMENT ON TABLE IV.

Theoretically we have 32 pupils per teacher in our schools. It is not to be understood, however, that every teacher handles that number. Unfortunately the location of pupils with reference to the school buildings is such that no such uniformity of registration in the various grades is possible. Through conditions beyond reasonable control the registration in the different rooms varies from a minimum of 23 to a maximum of 55.

I have heard it suggested occasionally by citizens, who had in mind the theoretical number, but who evidently failed to comprehend the situation as it is, that the Committee ought to economize in the number of teachers employed by combining schools and increasing the number of pupils per teacher.

The folly of this proposition is easily apparent to one who understands existing conditions in the schools. Even if it be granted that such consolidation were possible, the adoption of any such policy would imperil the educational welfare of the children in our schools. It is quite possible for a teacher to "keep" school with a roomful of fifty or even sixty pupils; but the best educational interests of children can not be promoted in that way.

Leading educators throughout the country are generally agreed that it is in the interest of true economy in the expenditure of money for school purposes to reduce rather than to increase the number of pupils per teacher as a rule.

The following statement upon this point by President Eliot of Harvard University well expresses the prevailing opinion among those whose judgment upon policies of school administration should have most weight. He says: "Given better teachers, the next additional expenditure should be due to a large reduction in the number of pupils placed before a single teacher. This number varies from forty to sixty. The higher number is monstrous, and the lower is by far too large. Twenty to twenty-five pupils are quite enough, if there is to be adequate attention to the individual and proper classification of pupils, according to quality and capacity. This is the improvement most urgently needed in the American schools of today."

TABLE V.

AVERAGE AGE OF PUPILS IN THE RESPECTIVE GRADES,
SEPTEMBER 1903, 1902, 1901, 1900, 1899.

NOTE -- Large figures indicate years, small figures indicate months.

YEAR.	PRIMARY.				GRAMMAR.					HIGH SCHOOL			
	GRADES.				GRADES					GRADES			
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
1903.....	5. ³	6. ⁴	7. ⁴	9. ³	10. ²	11. ³	12. ⁵	13. ³	14. ³	15. ⁴	16. ⁵	17. ⁶	18. ³
1902.....	5. ⁷	7.	8. ²	9. ³	10. ⁶	11. ⁷	12. ⁸	13. ⁸	14. ⁷	15. ⁷	16. ⁸	17. ⁵	18. ⁴
1901.....	5. ⁹	7.	8. ³	9. ⁴	10. ⁸	11. ⁸	12. ⁹	13. ⁹	14. ⁸	15. ⁹	16. ⁵	17. ⁵	18.
1900....	6.	7. ³	8. ²	9. ⁵	10. ¹¹	11. ¹⁰	12. ⁹	13. ¹¹	14. ¹⁰	15. ⁷	16. ⁶	17. ²	18. ²
1899.....	6.	7. ³	8. ⁹	10.	11.	12. ¹	12. ¹¹	14.	14. ¹¹	15. ⁸	16. ³	17. ²	18. ⁶

COMMENT ON TABLE V.

The above table shows that, during the past four years, there has been a reduction in the average age of pupils in every grade excepting the eleventh and twelfth.

This reduction is the direct result of more careful supervision of promotions and of closer attention by teachers to the needs of the pupils individually, and will undoubtedly tend to prolong the average length of the school life of our young people.

TABLE VI.

SUMMARY OF PRINCIPALS' REPORTS FOR THE SCHOOL YEAR, 1902-1903.

1. BY SCHOOLS.

SCHOOLS.	No. of Different Pupils Enrolled.	No. of Boys.	No. of Girls.	Average Membership.	Average Attendance.	Per Cent. of Attendance.	One-half Day's Absence.	Tardiness.	Corporal Punishment.
High.....	408	181	227	369.58	351.00	94.97	7,019	274	...
Franklin	361	165	196	331.25	313.00	94.49	6,194	459	7
Washington	344	159	185	324.29	303.42	93.56	7,665	469	2
Lincoln	334	167	167	333.89	321.78	96.37	4,381	394	...
Horace Mann.....	353	166	187	315.08	279.05	94.28	5,603	677	14
D. W. Gooch.....	350	199	151	300.11	283.23	94.39	5,745	188	3
Mary A. Livermore	183	88	95	166.85	158.07	94.74	3,046	180	3
Warren	154	83	71	137.61	126.54	91.95	2,995	220	...
Winthrop	115	51	64	103.50	93.74	90.57	3,150	254	...
Sewall	178	84	94	167.65	155.16	92.55	4,184	251	...
Whittier	155	91	64	139.99	127.04	90.75	4,806	154	...
Converse	28	13	15	25.44	23.91	93.98	589	16	...
Ripley	25	16	9	23.92	20.51	85.75	1,056	37	...
Total	2,988	1,463	1,525	2,739.16	2,574.50	93.99	56,433	3,573	29

2. BY GRADES.

	No. of Different Pupils Enrolled.	No. of Boys.	No. of Girls.	Average Membership.	Average Attendance.	Per Cent. of Attendance.	One-half Day's Absence.	Tardiness.	Corporal Punishment.
High.....	408	181	227	369.58	351.00	94.97	7,019	274	...
Grade IX.....	189	78	111	175.72	167.92	95.56	2,795	225	1
“ VIII.....	205	109	96	191.05	182.61	95.58	2,928	157	5
“ VII.....	277	139	138	241.69	230.07	95.19	4,110	303	1
“ VI.....	294	133	161	270.02	256.44	94.97	4,922	337	6
“ V.....	330	153	177	310.82	294.88	94.87	5,982	447	8
“ IV.....	275	144	131	257.84	242.77	94.16	4,826	407	4
“ III.....	275	142	133	261.97	245.80	93.83	5,236	365	4
“ II.....	349	175	174	319.39	297.47	93.14	7,527	667	...
“ I.....	333	180	153	291.72	261.12	89.51	9,423	338	...
Combined Grades I-II-III	53	29	24	49.36	44.42	89.99	1,665	53	...
Total	2,988	1,463	1,525	2,739.16	2,574.50	93.99	56,433	3,573	29

TABLE VII.

COMPARATIVE STATISTICS ON ATTENDANCE.

1. AVERAGE MEMBERSHIP.

SCHOOLS.	1897.	1898.	1899.	1900.	1900-01.	1901-02.	1902-03.
High	241.18	220.49	229.19	250.26	264.89	301.49	369.58
Franklin	313.40	315.52	343.63	337.42	338.57	355.42	331.25
Washington	285.56	356.46	332.89	305.52	320.64	328.35	324.29
Lincoln .....	.....	190.79	225.19	292.11	304.98	298.53	333.89
Horace Mann.....	328.11	300.79	280.26	298.20	316.58	327.38	315.08
D. W. Gooch.....	365.83	327.17	297.49	271.05	264.82	289.66	300.11
Mary A. Livermore	176.52	179.35	174.59	170.06	181.86	184.02	166.85
Warren	138.39	110.64	126.43	142.01	153.00	177.62	137.61
Winthrop	150.56	135.34	128.64	113.84	103.84	110.44	103.50
Sewall	170.45	152.32	160.36	164.48	161.58	136.89	167.65
Whittier	133.90	115.02	107.60	114.89	120.31	92.13	133.99
Converse	64.65	50.09	42.96	40.97	37.60	27.36	25.44
Ripley	37.00	36.42	36.16	23.34	30.28	25.60	23.92
West Side Kind...	.....	15.84	20.82	11.43	.....	.....	.....
Totals.....	2,505.55	2,506.15	2,506.21	2,540.57	2,598.95	2,654.89	2,739.16

2. AVERAGE ATTENDANCE.

SCHOOLS.	1897.	1898.	1899.	1900.	1900-01.	1901-02.	1902-03.
High	229.60	212.17	220.73	239.56	251.78	289.01	351.00
Franklin	292.05	296.79	322.89	314.36	314.31	332.84	313.00
Washington	252.20	330.91	310.12	286.75	296.88	305.68	303.42
Lincoln .....	.....	178.41	206.91	270.72	286.49	287.12	321.78
Horace Mann.....	287.10	284.93	270.55	284.23	302.82	311.81	297.05
D. W. Gooch.....	332.10	307.33	282.44	258.76	253.04	275.17	283.28
Mary A. Livermore	164.70	170.59	168.56	163.92	174.71	174.45	158.07
Warren	128.75	104.96	120.33	136.12	145.12	166.05	126.54
Winthrop	130.60	125.52	120.87	106.63	97.50	102.23	93.74
Sewall	144.50	134.79	144.58	148.93	148.04	123.29	155.16
Whittier	112.50	104.90	98.46	105.57	105.98	82.87	127.04
Converse	56.00	47.87	41.76	40.02	36.11	25.37	23.91
Ripley	30.60	31.16	31.54	26.56	27.29	22.27	20.51
West Side Kind...	.....	13.59	17.76	9.76	.....	.....	.....
Total.....	2,260.70	2,343.90	2,357.50	2,391.89	2,440.07	2,498.16	2,574.50

3. PER CENT. OF ATTENDANCE.

SCHOOLS.	1897.	1898.	1899.	1900.	1900-01.	1901-02.	1902-03.
High	95.20	96.22	96.31	95.72	95.05	95.65	94.97
Franklin	93.19	94.06	93.96	93.23	92.83	93.65	94.49
Washington	91.32	92.83	93.16	93.86	92.59	93.07	93.56
Lincoln .....	.....	93.45	91.88	92.68	93.94	96.18	96.37
Horace Mann	87.50	94.73	96.54	95.32	95.65	95.00	94.28
D. W. Gooch	90.78	93.94	94.94	95.47	95.55	95.24	94.39
Mary A. Livermore	93.19	93.17	96.54	96.39	96.07	94.26	94.74
Warren	93.03	94.87	95.18	95.85	94.85	93.49	91.95
Winthrop	86.74	92.74	93.95	93.67	94.85	92.57	90.57
Sewall	84.78	88.46	90.16	90.55	91.62	90.00	92.55
Whittier	83.27	91.20	91.51	91.89	88.16	89.95	90.75
Converse	86.62	95.74	97.21	97.68	96.01	92.43	93.98
Ripley	82.70	85.51	87.22	93.72	99.13	86.99	85.75
West Side Kind...	.....	94.48	85.31	84.51	.....	.....	.....
Total	90.23	93.53	94.07	94.15	93.88	94.10	93.99

COMMENT ON TABLE VII.

Reference to the above table reveals an increase of $3 \frac{1}{5}$ % in the average membership of the schools during the past year. This is the largest increase that has been made during any previous year of my service in the City.

While there appears a decrease of about one-tenth per cent. in the regularity of attendance during the past year, it will be noted that the rate is $3 \frac{7}{10}$ higher than in 1897, the year before I became connected with the schools.

It is interesting to note also that the regularity with which pupils attend school in Melrose is 2% above the average for the State.

Attention has been called in previous reports to the value to the schools of this improvement in attendance.

TABLE VIII.

SCHOOL CENSUS AND ENROLLMENT.

No. of persons between 5 and 15 years of age residing in the city September 1, 1903.....	2,717
No. of persons between 7 and 14 years of age residing in the city September 1, 1903.....	1,977
No. of different pupils enrolled during the school year from Sep- tember 1902 to June 1903.....	2,988

No. of pupils over 15 years of age enrolled during the school year, 1902-1903	500
No. of pupils between 5 and 15 years of age enrolled during the school year, 1902-1903.....	2,460
No. of pupils between 7 and 14 years of age enrolled during the school year, 1902-1903.....	1,686
No. of pupils under 5 years of age enrolled during the school year, 1902-1903.....	28

TABLE IX.

ANNUAL FINANCIAL EXHIBIT FOR 1903.

1. GENERAL STATEMENT.

Receipts.

Regular appropriation for 12 mo. from Feb. 1, 1903 to Feb. 1, 1904.....	\$84,049 00
-------------------------------------------------------------------------	-------------

Expenditures.

Salaries (teachers, janitors, superintendent, clerk)	\$63,563 33
Books and supplies	6,299 38
Fuel	6,699 15
Repairs	3,875 77
Miscellaneous	1,740 41
Furniture	821 68
Transportation	527 00
Advertising and printing.....	350 00
High School and teachers' libraries.....	98 60

Total expenditure for 12 mo. from Feb. 1, 1903 to Feb. 1, 1904.....	\$83,975 32
---------------------------------------------------------------------	-------------

Unexpended balance.....	\$73 68
-------------------------	---------

2. AVERAGE EXPENDITURE PER PUPIL.

Based on the average membership of the schools for the financial year (2771.03).

For teaching.....	\$20 20
Supervision (superintendent and clerk).....	93
Books and supplies.....	2 27
Janitors	1 80
Fuel	2 41
Miscellaneous	63
Transportation	19
Advertising and printing.....	12
High school and teachers' libraries.....	03

Total cost, <i>excluding</i> repairs, furniture and new buildings	\$28 58
For furniture.....	29
Repairs	1 40
Total cost for all purposes.....	\$30 27

TABLE X.
COMPARATIVE FINANCIAL EXHIBIT COVERING THE PERIOD SINCE MELROSE BECAME A CITY.
1. GENERAL STATEMENT.

	1900	1901	1902	1903.
RECEIPTS.				
Appropriation for year.....	\$77,000.00	\$77,000.00	\$78,589.00	\$84,049.00
Receipts for Tuition, etc	1,176.08	1,932.11	.....	.....
Supplementary Appropriation.....	.....	2,450.00	2,658.33	.....
Total Amount Available	\$78,176.08	\$81,382.11	\$81,247.33	\$84,049.00
EXPENDITURES.				
Salaries	\$60,141.47	\$61,384.35	\$62,268.01	\$63,563.33
Books and Supplies.....	5,123.00	5,799.26	5,199.95	6,299.38
Fuel	7,060.08	7,449.89	6,541.67	6,699.15
Repairs	2,681.89	3,700.00	3,831.17	3,875.77
Miscellaneous	1,771.87	1,478.62	1,878.65	1,740.41
Furniture	1,036.07	599.71	600.00	821.68
Transportation .....	.....	480.00	509.00	527.00
Advertising and printing	361.70	270.95	251.75	350.00
High school and teachers' libraries .....	.....	99.76	99.85	98.60
Total Expenditure.....	\$78,176.08	\$81,262.54	\$81,180.05	\$83,975.32
Unexpended balance.....	.....	119.57	67.28	73.68
Excess of expenditure.....	.....	.....	.....	.....

2. AVERAGE EXPENDITURE PER PUPIL.

(Based on average membership for the financial year.)

	1900	1901	1902	1903
For teaching.....	20.31	20.23	19.77	20.20
For supervision.....	.98	1.07	.98	.93
For books and supplies.....	2.02	2.23	1.91	2.27
For janitors.....	2.38	2.31	2.21	1.80
For fuel.....	2.78	2.87	2.41	2.41
For printing.....	.14	.10	.09	.12
For transportation.....	....	.18	.18	.19
For high school and teachers' library..	....	.04	.03	.03
For miscellaneous (not including repairs, furniture and new buildings).....	.70	.57	.69	.63
Total cost (excluding furniture, repairs and new buildings).....	29.31	29.60	28.27	28.58
For furniture .....	.41	.23	.22	.29
For repairs.....	1.06	1.42	1.41	1.40
Total cost for all purposes.....	30.77	31.25	29.90	30.27
Similar average for the State at large.....	34.62	34.92	36.42	35.80

COMMENT ON TABLE X.

While the foregoing table indicates that our total expenditure for schools in 1903 was \$2,795.27 more than in 1902, it appears that the cost per pupil for the past year remains nearly the same as it has been for the three previous years, being a little larger than in 1902 but less than in 1901 or 1900.

It will be observed, also, that the per capita cost for education in Melrose is \$5.53 less than the average for the State at large. While this showing indicates that the School Committee is reasonably careful with respect to school expenditures, yet, as suggested in a previous report, it is at least an open question whether or not our standing in this respect is altogether a matter for congratulation. In this connection it is interesting, possibly profitable, to review a recent utterance by President Eliot of Harvard University with respect to school expenditures. He says: "My object is to urge that the expenditure per pupil in the common schools of the United States is altogether insufficient. Let us now compare the amount expended on the public school

child with what is spent by a well-to-do family on its child sent to an endowed or private school. The private school charges a tuition fee of from \$100 to \$500 a year for day pupils. In the endowed secondary schools, the total charge varies between \$400 and \$1,000. Now it is perfectly easy to provide lodging and food for any pupil between the ages of ten and eighteen at a cost of five dollars a week ; so that the charge for tuition and general care and sometimes interest on the plant at these institutions must be from \$200 to \$600 a year of forty weeks. If you ask on what these large tuition fees are expended, the answer is chiefly on teaching. A public school which has a teacher for every forty pupils is fortunate. The private and endowed schools not infrequently provide a teacher for every eight or ten pupils. Moreover, they employ a more expensive kind of teacher ; for they use a larger proportion of men, and a larger proportion of college graduates. Is it not plain that if the American people were all well-to-do, they would multiply by four or five the present average expenditure per child and per year? I wish to urge on you the proposition that the American people cannot afford to persist in the present low school expenditure per child and per year. *We ought to spend more public money on schools."*

TABLE XI.
CHANGES IN TEACHING FORCE DURING 1903.
I. WITHDRAWALS.

Name of Teacher.	Position Held.	Date of Withdrawal.
Maude E. Brown.....	1st grade, Gooch.....	February 1903
Grace E. Chamberlain.....	8th grade, Washington.....	April 1903
Persis M. Sibley.....	7th grade, Livermore.....	April 1903
Wm. A. Reed.....	Principal, Washington.....	June 1903
Hattie D. Field.....	2d grade, Washington.....	June 1903
Mary E. Nye.....	4th grade, Gooch.....	June 1903
Ethel L. Clark.....	3d grade, Gooch.....	June 1903
Henrietta N. Cowen.....	5th grade, Horace Mann.....	June 1903
Jane E. Warfield.....	Principal's Assistant, Livermore.....	June 1903
Edith I. Brown.....	Principal's Assistant, Lincoln.....	June 1903
Hugh G. Greene.....	Business Dept., High School.....	July 1903
Sylvia Williams.....	8th grade, Franklin.....	July 1903
Katherine V. Rowe.....	5th grade, Livermore.....	Sept. 1903
Helena M. Hoeking.....	1st grade, Winthrop.....	Sept. 1903
Geneva B. Davidson.....	1st grade, Sewall.....	Sept. 1903
Annie C. Merritt.....	Modern Language Dept., High.....	October 1903
Helen M. Armstrong.....	English Dept., High School.....	December 1903

2. TRANSFERS.

Name of Teacher.	Position Held.	Position to Which Transferred.	Date
Minnie F. C. Snow.....	4th grade, Franklin.....	4th grade, Lincoln.....	..... Sept.
Annie P. Long....	1st grade, Gooch.....	2d grade, Washington.....	..... Sept.
A. Arline Merrill.....	2d grade, Mann.....	1st grade, Gooch.....	..... Sept.
Mabel Price.....	1st grade, Warren.....	1st grade, Gooch.....	..... Sept.
Anastasia G. Riley.....	Mixed, Converse.....	2d grade, Mann.....	..... Sept.
Mabel G. Gilbride.....	Mixed, Ripley.....	2d grade, Winthrop.....	..... Sept.
Frances B. Brown.....	1st grade, Whittier.....	1st grade, Sewall.....	..... Oct.
Harriet H. Dowe.....	9th grade, Washington.....	5th grade, Lincoln.....	..... Dec.

3. NEW TEACHERS.

Name of Teacher.	Position Held.	Position to Which Elected.	Began Work.
Bessie A. Conway.....	Ungraded School, N. H.....	7th grade, Livermore.....	.....March
Amelia C. Ford.....	Student at Radcliffe.....	English Dept., High.....	.....Sept.
J. Thatcher Sears.....	Student at Harvard.....	English Dept., High.....	.....Sept.
G. Walter Williams.....	East Boston, Evening School.....	Business Dept., High.....	.....Sept.
Rose D. Lanphear.....	8th grade, Beverly.....	8th grade, Franklin.....	.....Sept.
Marguerite Pierce.....	Millis, Mass.....	6th grade, Franklin.....	.....Sept.
Blanche M. Brickett.....	Bridgewater Normal.....	6th grade, Franklin.....	.....Sept.
Genevieve R. Barrows.....	Not teaching.....	4th & 5th grades, Washington.....	.....Sept.
Edith S. Blake.....	Prin. Grammar School, Dartmouth, Mass.....	Principal's assistant, Lincoln.....	.....Sept.
Annie P. O'Hara.....	Not teaching.....	Principal's assistant, Livermore.....	.....Sept.
G. Rose McConnell.....	Not teaching.....	1st grade, Warren.....	.....Sept.
Jennie L. Prescott.....	Not teaching.....	1st grade, Winthrop.....	.....Sept.
Josephine Burleigh.....	Not teaching.....	4th grade, Whittier.....	.....Sept.
Helen L. Patten.....	Not teaching.....	Mixed, Converse.....	.....Sept.
Dora F. Whittredge.....	Not teaching.....	Mixed, Ripley.....	.....Sept.
Grace M. Perkins.....	3d & 4th grades, Natick, Mass.....	3d grade, Gooch.....	.....Sept.
Ella J. Spooner.....	Perkins Institute, Boston.....	General Substitute.....	.....Sept.
Marion D. Dean.....	Not teaching.....	6th grade, Livermore.....	.....Oct.
Annie M. Jenness.....	1st grade, Rutland, Mass.....	1st grade, Whittier.....	.....Oct.

COMMENT ON TABLE XI.

The foregoing table shows that during the year seventeen teachers have withdrawn from the corps, that there have been eight transfers, and nineteen accessions to the force of teachers. Generally speaking, every change in the make-up of the corps represents at least a temporary educational loss. For, even if the Committee be fortunate enough to secure in the new teacher one who is admirably equipped both by nature and by training to carry on the work, it is impossible for a time for her to reach the maximum of her possible efficiency. A teacher must know her pupils and the new conditions and the pupils must understand her before the best results can be expected. Meanwhile there is loss educationally.

There is another phase of the matter which needs to be considered also. Owing to the demand that exists today for first-class teachers, it frequently takes days of the Superintendent's time, which can hardly be spared from supervisory work, to find suitable candidates to present to the Committee when a vacancy has occurred.

In view of the aggregate loss involved in frequent changes in the teaching force, it would seem proper for the Committee to consider whether it is not in line with true economy to adopt some adjustment of teachers' salaries that may tend to lessen the chances of having efficient teachers leave Melrose for higher salaried positions elsewhere.

In this connection it is a pleasure to report that the work of the new teachers whom we have employed during the year has, in the main, justified their selection.

TABLE XII.

PROFESSIONAL TRAINING OF TEACHERS.

1.	Proportion of teachers who are graduates of Normal Schools,	37%
2.	“ “ “ “ have had a partial course at Normal Schools.....	6%
3.	Proportion of teachers who are graduates of Colleges.....	18%
4.	“ “ “ “ have had a partial course at College	6%
5.	Proportion of teachers who are graduates of Kindergarten Training Schools.....	8%
6.	Proportion of teachers who have had a course in City Training Schools	11%
7.	Proportion of teachers who are without training in College, Normal School, Kindergarten School or City Training Class...	14%

COMMENT ON TABLE XII.

Comparison of the above table with a similar one in the report for 1900, the first year in which I collected statistics in this line, shows (1) that the proportion of teachers in the corps today who have had either a partial or a full course in Normal School is 4% greater than in 1900 and (2) that the proportion who have had either a partial or a full course in College is 6% greater than in 1900.

This is as it should be. Other things being equal, the fuller the original training of a teacher, the better for those whom she is set to teach.

TABLE XIII.

TIME LOST BY TEACHERS FOR SICKNESS, ETC., 1903.

SCHOOL.	No. of Teachers.	No. of Teachers Lost Time.	Days Lost.	Average per Teacher for Building.
High	15	6	18	1 $\frac{1}{3}$
Franklin	9	5	21	2 $\frac{1}{3}$
Washington	12	8	25 $\frac{1}{2}$	2 $\frac{1}{3}$
Lincoln	10	8	18	1 $\frac{4}{5}$
Horace Mann	10	7	19	1 $\frac{9}{10}$
D. W. Gooch	10	8	16 $\frac{1}{2}$	1 $\frac{13}{20}$
Livermore	8	7	25	3 $\frac{1}{8}$
Warren	6	6	8 $\frac{1}{4}$	1 $\frac{3}{4}$
Winthrop	7	6	22	3 $\frac{1}{2}$
Sewall	5	5	14	2 $\frac{4}{5}$
Whittier	6	6	28	4 $\frac{2}{3}$
Converse	1	1	20	20
Ripley	2	1	5 $\frac{1}{2}$	2 $\frac{3}{4}$

TABLE XIV.

COMPARATIVE STATISTICS REGARDING CORPORAL
PUNISHMENT.

YEAR.	No. of Cases.	No. Different Teachers Reporting the Same.	Per Cent. of Teachers Reporting no Cases.
1899 (Jan.-June)	66	22	71%
1899-1900 (Sept.-June)	20	10	88%
1900-1901 (Sept.-June)	32	16	80%
1901-1902 (Sept.-June)	48	18	79%
1902-1903 (Sept.-June)	29	14	86%

COMMENT ON TABLE XIV.

In the report for 1902 attention was called to the fact that during 1901 and 1902 the number of cases of corporal punishment had been gradually increasing in our schools. The above table shows twenty-nine cases in 1903, a decrease of 65% from the number in 1902. It appears, also, that the number of teachers who found it necessary to resort to this means of punishment in 1903 is 22% less than in 1902.

Eight of our schools have been conducted during the year without resort to the rod in government, viz., the High, the Lincoln, the Warren, the Winthrop, the Whittier, the Sewall, the Converse and the Ripley.

It is worth noting also that in one of our largest grammar schools, the Lincoln, there has not been a case of corporal punishment during the last two school years, and at no time since the building was opened has the general tone of the school been better than it is today.

It does not appear from the foregoing showing that the power to punish children by whipping is being abused in our schools at present.

Doubtless there are times in the management of pupils when resort to corporal punishment is wise; but such resort will always be rare, if the proper conception of school management controls the teacher.

My work as Superintendent of Schools in Melrose began with August, 1898. Since January, 1899, there has been

kept a record of every case of corporal punishment in the schools throughout the city. During the first six months from January to June, 1899, there were sixty-six cases, a number 131% greater than that for the entire school year ending in June, 1903. This decrease in corporal punishment has not been accompanied by any laxity in discipline. On the other hand, in my judgment, the discipline in our schools today is better than it was when corporal punishment was used more freely.

THE HIGH SCHOOL.

This part of the school system has been so fully treated in previous reports that little need be said at this time. It is proper, however, to report that the High School continues to do work that is highly satisfactory on the whole.

The following statistical tables, with the accompanying comment, present interesting information regarding the development of this school.

I. *Regarding Attendance:* The following table gives the maximum number of pupils registered in the High School in September of each of the years indicated.

YEAR.	Fourth Class.	Third Class	Juniors.	Seniors.	Post Graduates.	Total.
1898.....	76	62	59	29	6	232
1899.....	88	59	47	46	7	247
1900.....	116	61	50	40	9	276
1901.....	119	95	58	44	9	325
1902.....	155	103	79	51	6	394
1903.....	157	117	93	61	5	433

There is no better proof of the efficiency of our High School in the full sense of that term than the remarkable increase in its attendance that has taken place during the past five years. The above figures show an increase of 87% in the registration for September, 1903, over that for September, 1898. This showing becomes more significant when one considers that the growth in the population of the city during that period has been about one-eleventh as rapid.

II. *Regarding Graduates:* Forty-nine pupils graduated from the High School in June, 1903. Four have returned to the school for post-graduate work; three are students at the Massachusetts Institute of Technology; two, at Harvard University; two, at Boston University; two, at Simmons College; one is attending Smith College; one, the University of New Brunswick; one, Dartmouth College; one, the State Normal Art School; one, the Fitchburg Normal School; one, the Salem Normal School; one, the Burnham School, Northampton, Mass.; one is studying music; one is in a Kindergarten Training School; seven are at home; and twenty are engaged in business occupations.

III. *Regarding Choice of Studies:* The following table has been compiled to give data bearing upon the effect of the system of elective studies in High School work.

LINES OF STUDY.	CLASSES.					Totals.
	Fourth.	Third.	Junior.	Senior.	Post Graduate	
English	150	112	90	59	3	414
History	144	53	15	42	2	256
Mathematics	148	61	26	14	2	251
Book-Keeping .....	...	...	54	25	.	79
Physics .....	...	88	2	8	2	100
Chemistry .....	...	...	44	4	.	48
Latin	81	41	24	14	3	163
Greek .....	...	17	8	6	1	32
German .....	...	44	30	26	1	101
French	23	81	43	24	2	173
Stenography ..	...	...	62	28	.	90
Typewriting .....	...	...	62	28	.	90
Music	101	59	21	18	1	198
Drawing	95	44	18	18	.	175
Commercial Law....	...	47	3	..	.	50
Commercial Geography...	...	47	3	..	.	50
Commercial Arithmetic...	75	4	3	2	.	84
Grammar	44	4	3	5	.	56

IV. *Regarding Cost of the High School:* The following table shows the total and the per capita cost for this school during the past four years.

EXPENDITURES FOR HIGH SCHOOL.

1. GENERAL STATEMENT.

ITEMS.	1900		1901		1902		1903	
	Expenditures.	Per cent of Expenditure for all Schools.	Expenditures.	Per cent. of Expenditure for all Schools.	Expenditures.	Per cent of Expenditure for all Schools.	Expenditures.	Per cent. of Expenditure for all Schools.
Salaries (teachers, janitor, engineer).....	\$14,313.33	24	\$14,202.50	23	\$14,479.50	23	\$14,762.00	2
Books and supplies . . .	2,105.98	41	1,716.44	30	1,565.49	30	1,206.74	20
Fuel	1,428.17	20	1,800.51	24	1,929.59	29	1,758.87	26
Sundries	340.93	19	409.33	27	705.01	22	850.14	32
High school library. ...	.....	..	79.61	..	49.57	..	50.00	..
Total for support of sch'l	18,188.41	..	18,208.39	..	18,747.16	..	18,627.75	..
Repairs and permanent improvements	320.66	12	591.20	16	359.45	9	328.16	8
Total for all purposes...	\$18,509.07	24	\$18,799.59	23	\$19,106.61	24	\$18,955.91	23

2. PER CAPITA EXPENDITURE.

(Based on average membership for financial year, 388.70)

	1900	1901	1902	1903
Salaries (teachers, janitor, engineer)...	\$57.19	\$50.95	\$42.68	\$37.98
Books and supplies.....	8.42	6.16	4.61	3.11
Fuel.....	5.71	6.46	5.68	4.53
Sundries	1.36	1.47	2.08	2.18
Repairs and permanent improvements.	1.28	2.12	1.06	.85
High school library.....	.....	.28	.14	.12
Total for all purposes.....	\$73.96	\$67.44	\$56.25	\$48.77

A study of the above figures reveals that, while the ratio of expenditure for High School purposes to the total school expenditure during the past year remains nearly the same as for the three previous years, the per capita cost for 1903 is 34 per cent. less than for 1900.

The reduction during 1903 from the cost of the previous year is 13 per cent.

This noticeable reduction in the per capita cost of education in our High School is not to be construed to indicate that former school committees were extravagant in the management of this school; it is the natural result from the

rapid increase in the membership of the school during the past few years.

PROGRESS OF THE YEAR IN GENERAL.

Beyond the preliminary steps to the introduction of manual training to which reference is made elsewhere, the work of the year has been directed mainly toward the development of the system along lines previously laid down.

I. *Changes in Text-Books:* The Buehler Grammar, which had been placed upon the list of approved text-books for our schools and had been used in two seventh grades during the school year of 1902-1903 with a high degree of satisfaction, was placed in all the seventh grades and in several eighth grades at the opening of the school year in September, 1903.

The policy adopted in introducing the book has been to extend its use only as rapidly as there was a demand for new books to take the place of worn out ones. Such a plan prevents any large expenditure at one time in changing from one series of books to another.

A similar policy has prevailed with reference to the Woodley Language Book and the Tarr and McMurray Geography, both of which have been introduced into our schools within the past three years. During the school year ending with June, 1903, the Woodley Language Book was used in three fourth grades; at present it is being used in all fourth and fifth grades. The Tarr and McMurray Geography was used during the past school year in all fourth and fifth grades and in a few sixth grades; at present its use has been extended to the remainder of the sixth grades and also to the seventh and eighth grades.

Near the middle of the school year 1902-3, the Werner Arithmetic, which had been used experimentally in a few eighth grades during the previous year, was authorized by the Committee for use in all grades in which a text-book on this subject is needed. Grades IV and V were immediately equipped with the Werner book and at the opening of the school year in September, 1903, its use was extended to the

sixth and seventh grades and to the remainder of the eighth grades.

The new text-books that have been authorized for use in the High school during the past year are as follows: Halleck's "History of English Literature," Mathews' "Introduction to American Literature," George's "From Chaucer to Arnold," and D'Oge's "Select Orations of Cicero."

While it is true that the results obtained in any line of school work depend more upon the teacher than upon the particular text-book used, it is also true that a properly arranged book in the hands of pupils aids greatly in securing the best results; and the foregoing changes in the text-books in our schools have been made with this thought in mind.

II. *Professional Improvement of Teachers*.:—To improve steadily in the quality of her professional equipment is the duty of every teacher; and an important part of the work of a Superintendent of Schools is to provide opportunities for teachers to secure this growth in professional strength. Believing thus, I have devoted to this work such time and energy as conditions would permit. General meetings of the teachers of all grades have been held frequently. These meetings have been for the discussion of general plans of work and administration, for enlarging the educational view of the teachers, and for inspirational purposes, and have been addressed in part by prominent educators from other communities and in part by myself. I have held, also, various conferences with groups of teachers for the consideration of special subjects calculated to improve the character of the work done in our schools.

The supervisors of music, drawing and penmanship have also held meetings more or less frequently with groups of teachers for purposes of instruction in these special subjects.

Another aid to the professional growth of our teachers is the Teachers' Library that is gradually being collected in the Superintendent's office.

This library is made up of valuable works bearing upon education which may be taken out for reading whenever teachers desire. The list of works collected thus far is as follows:

LIST OF BOOKS.

TITLE	AUTHOR
Pedagogics of the Kindergarten.....	Froebel
Education of Man.....	"
Practical Pedagogy.....	Hopkins
Early Training of Children.....	Malleson
Moral Instruction of Children.....	Adler
Principles of Education.....	Greenwood
Principles of Education.....	MacVicar
Education in the United States.....	Boone
Education.....	Spencer
Education by Doing.....	Johnson
Elements of Pedagogy.....	White
Emile.....	Rousseau
School Management.....	White
European Schools.....	Klemm
Practical Hints for Teachers.....	Howland
Quiz on Theory and Practice of Teaching.....	Southwick
School Devices..	Shaw & Donnell
Object Lessons.....	Rick
Talks on Teaching.....	Parker
Outlines of Pedagogics.....	Rein
Pathfinder in American History.....	Gordy & Twitchell
Methods and Aids in Geography.....	King
Geography by Brace System.....	Boyer & Wicks
How to Study U. S. History.....	Trainor
Day Dreams of a Schoolmaster.....	Thompson
Theory of Education.....	Seeley
School Management.....	Tomkins
Principle and Practice of Teaching.....	Johonott
Methods of Teaching.....	Swett
Education as a Science.....	Bain
Methods of Teaching History.....	Hall
Courses and Methods.....	Prince
System of Education.....	Gill
Rosmini's Method in Education.....	Grey
Manual Training School.....	Woodward
School Interests and Duties.....	King
The Teaching of English.....	Chubb
Source Book of History and Education.....	Monroe
The Teaching of Modern Foreign Language.....	Breul
Introduction to the Herbartian Principle of Teaching..	Brebner & Dodd
Chapters on School Supervision.....	Payne
The Method of Teaching Modern Languages.....	Brebner
How to Interpret Pictures.....	Sawvel
The Child and His Nurture.....	Drummond

TITLE.	AUTHOR.
The Point of Contact in Teaching.....	DuBois
The Elementary Study of English... ..	Rolfe
Means and End of Education.....	Spalding
History of Pedagogy.....	Hailman
Methods of Teaching History.....	Hall
School of Infancy.....	Comenius
Mind and Hand.....	Ham
Kindergarten Culture.....	Hailman
An Experiment in Education.....	Alling-Abner
The Art of Study.....	Hinsdale
How to Teach Reading in the Public Schools.....	Clark
Psychology for Teachers.....	Morgan
The Art of Teaching.....	White
Pestalozzi	Ruse
School Architecture.....	Wheelwright
Social Phases of Education.....	Dutton
Thoughts and Theories of Life and Education.....	Spalding
Educational Aims and Educational Values.....	Hanus
Interest and Education.	De Garmo
The Study of History in the Schools.....	The Committee of Seven
The Nervous System of the Child.....	Warner
The Teaching of Elementary Mathematics.....	Smith
The Education of the Central Nervous System.....	Halleck
Herbart's Outlines of Educational Doctrine.....	Lang & De Garmo
The Study of Children and Their School Training.....	Warner
The Making of Character.....	MacCunn
Report of Committee of 15	
“ “ “ “ 10	
Jukes-Edwards	Winship
Horace Mann.....	Winship
School Decoration and Sanitation.....	Burrage & Bailey
The Educational Ideal.....	Monroe
Educational Reform.....	Eliot
Report on Geography	
The Study of Child Nature.....	Harrison
The Theory of Education.....	Lloyd
Power Through Repose.....	Call
Jean Mitchell's School.....	Wray
Hints on Teaching Civics.....	Martin
Genetic Psychology for Teachers.....	Judd
Education as Adjustment.....	O'Shea
Teaching of Chemistry and Physics.....	Smith & Hall
Education and Life.....	Baker
Teaching of Latin and Greek.....	Bennett & Bristol
Introduction to Psychology.....	Calkins
Hygiene of the School Room.....	Barry

TITLE.	AUTHOR.
Making of our Middle Schools.....	Brown
Talks on the Study of Literature.....	Bates
Psychologic Foundations of Education.....	Harris
Ten New England Blossoms.....	Weed
Manual for the Study of Insects.....	Comstock
Birds of Village and Field.....	Merriam
Bird Life.....	Chapman
Insects Injurious to Fruits.....	Saunders
Every Day Birds.....	Torrey
Familiar Features of the Road Side.....	Mathews
Every Day Butterflies.....	Scudder
Psychology and Life.....	Munsterberg
Teaching of English.....	Carpenter, Baker & Scott
Teaching of History and Civics.....	Bourne
Paper and Cardboard Work.....	Chamberlain
Woodworking for Beginners.....	Wheeler
Education through Nature Study.....	Munson

Since the opening of the present school year (a period of six months) 37% of the teachers have voluntarily made use of this library. Seventeen have read one work, seven others have read two works, seven more have read three works, and three have read four or more.

It may be said, further, as bearing upon the professional improvement of our teachers, that the majority have availed themselves of many opportunities for attendance upon educational meetings other than our local gatherings, also that many have pursued special lines of study under competent instructors to perfect themselves in their chosen work.

It may be fairly inferred, therefore, that our teachers, as a whole, are making commendable progress in keeping pace with the ever increasing demands in the field of educational effort.

III. *School Property:* In addition to the current repairs that have been required upon the school property considerable has been accomplished during the year in the line of special improvements.

For some time repairs had been needed upon the exterior of the Whittier School building, while the appearance of

the grounds about the building through gradual erosion and disintegration of the concrete walks had become a disgrace to the city. During the summer vacation, the front roof of the building was re-shingled, gutters and leading-pipes were placed around the entire building; the steps at the entrance were rebuilt; the exterior of the building was thoroughly painted; the grounds were sub-drained, graded and seeded; an inside stone curb was placed along the sidewalk on Franklin street; a retaining wall of stone was built along the westerly side of the grounds to prevent further washing down in that direction, and also to enlarge the area of the playground; and, to protect the children in their play, this wall was capped with a fence.

The cost of this work was considerable, but the best interests of the city seemed to require it.

Further special improvements were made during the summer by painting the exterior of the Horace Mann building, by finishing the grading and seeding of the grounds at the Washington school, and by the introduction of new and improved sanitary arrangements at the Warren school. The last mentioned work was done under a special appropriation made by the City Government as the result of a report to the School Committee by the Engineer and Superintendent of Public Works..

IV. *Decoration of School Buildings:* Considerable has been accomplished during the year in the decoration of our school rooms. As the result of the Horace K. Turner art exhibit, which was held in the High school hall for four days during the latter part of January, 1903, under the joint auspices of the School Department and the Women's Clubs of the City, and through the generosity of individual citizens, the earnestness of the High School Alumni Decorating Committee, and the special efforts of the pupils and teachers in different schools in the way of fairs, entertainments, and class gifts, the following pictures, casts, etc., have been secured.

HIGH SCHOOL.

"Choosing the Caskets"	<i>Barth</i>
"The Cologne Cathedral"	
"Queen Louise and Her Sons"	<i>Steffeck</i>

WASHINGTON SCHOOL.

Bryant	
Lowell	
Holmes	
Longfellow	
Mount Vernon	
"Christ and the Doctors"	<i>Hofmann</i>
"Sir Galahad"	<i>Watts</i>
"Christ and the Fishermen"	<i>Zimmerman</i>
"The Windmill"	<i>Ruysdael</i>
"The Water-Gate"	<i>Von Marche</i>
"The Holy Child"	<i>Murillo</i>
"Norman Sire"	<i>Bonheur</i>
"Sunset Glow"	<i>Riecke</i>
"Spirit of '76"	<i>Willard</i>
"The Meadow Pool"	<i>Pierce</i>
"Fog Warning"	<i>Homer</i>
Niagara	
"Madonna"	<i>Derfregger</i>
"Cherub Choir"	<i>Reynolds</i>
"At the Fireside"	
"Flight into Egypt"	<i>Plockhorst</i>
"A Little Child Shall Lead Them"	<i>Strutt</i>
"Cornered"	<i>Louyot</i>
"Christ Blessing Little Children"	<i>Plockhorst</i>
"A Distinguished Member of the Humane Society"	<i>Landseer</i>
"Madonna"	<i>Michael Angelo</i>
"Bambino"	<i>Andrea Della Robbia</i>
"Mother and Daughter"	<i>Douglas</i>
"St. George and Dragon"	
"Baby Stuart"	<i>Van Dyke</i>
"Music Lesson"	<i>Wunch</i>
Triumph of Alexander (cast)	<i>Thorwaldsen</i>
Lion's Head (cast)	<i>Dontello</i>

LINCOLN SCHOOL.

"Christ and the Doctors"	.	.	.	.	.	<i>Hofmann</i>
"By the Riverside"	.	.	.	.	.	<i>Lerolle</i>
"Mother and Daughter"	.	.	.	.	.	<i>Douglas</i>
"After the Storm"						

FRANKLIN SCHOOL.

"Spirit of '76"	.	.	.	.	.	<i>Willard</i>
"Fog Warning"	.	.	.	.	.	<i>Homer</i>
Colombo Breakwater, photographed by						<i>H. G. Peabody</i>

D. W. GOOCH SCHOOL.

"Song of the Lark"	.	.	.	.	.	<i>Breton</i>
"By the Riverside"	.	.	.	.	.	<i>Lerolle</i>
"The Lake"	.	.	.	.	.	<i>Corot</i>

HORACE MANN SCHOOL.

"A Distinguished Member of the Humane Society"						<i>Landseer</i>
"Song of the Lark"	.	.	.	.	.	<i>Breton</i>
"Sunset Glow"	.	.	.	.	.	<i>Riecke</i>

MARY A. LIVERMORE SCHOOL.

"The Lake"	.	.	.	.	.	<i>Corot</i>
"Dawn"	.	.	.	.	.	<i>Eggleston</i>
"The Windmill"	.	.	.	.	.	<i>Ruysdael</i>
"Fog Warning"	.	.	.	.	.	<i>Homer</i>

WHITTIER SCHOOL.

"Shoeing the Bay Mare"	.	.	.	.	.	<i>Landseer</i>
"The Lookout"	.	.	.	.	.	<i>Homer</i>
"Child Handel"	.	.	.	.	.	<i>Dicksee</i>

JOSEPH WARREN SCHOOL.

"The Divine Shepherd"	Murillo
"Little Dutch Girl"	
"Golden Autumn Day"	Marcke
A Boy's Head (cast)	

SEWALL SCHOOL.

"Sistine Madonna"	Raphael
"Golden Autumn Day"	Marcke
"Distinguished Member of the Humane Society"	Landseer

WINTHROP SCHOOL.

"Distinguished Member of the Humane Society"	Landseer
"Sistine Madonna"	Raphael

RIPLEY SCHOOL.

"Pharaoh's Horses"	
"Baby Stuart"	Van Dyke

CONVERSE SCHOOL.

"Gerettet"

V. *Music, Drawing and Penmanship*: The supervisors of these special subjects were requested to report briefly with respect to the work done along these lines and I invite the attention of the Committee to their statements which follow.

REPORT OF SUPERVISOR OF MUSIC.

MR. F. H. NICKERSON, Superintendent of Schools:

I have the honor to submit to you the following report for the year's work in music.

Two principal ends are to be held before us in carrying on the work in music in the schools. (1) It should be our aim to lead the child to appreciate and enjoy what is best in music in order that his aesthetic nature may be aroused and cultivated thereby. (2) We should endeavor, through exercises and sight reading, to develop the child's understanding so that the page of music shall tell to him its story as plainly as the page of printed words.

The work along these two lines should never be divorced. The purposes are mutually helpful. The child first loves music for itself. Later he enjoys quite as much his increased power and skill in rendering it.

Our course of study in music is definite and progressive throughout. The following is a condensed plan of the work.

GRADE I.

- (a) Rote Songs. Walker & Jenks Book.
Child Life and Song.
Mrs. Blow's Kindergarten Book
Froebel's Finger Plays.
- (b) Technical Work. Tone matching, oral dictation, illustrations of scale from blackboard, elimination of monotone element, sing from first half of chart A.

GRADE II.

- (a) Oral and written dictation.
- (b) Charts A and B.
- (c) First half of primer.

GRADE III.

- (a) Oral dictation.
- (b) Care for monotones.
- (c) Teach divided pulsation.
- (d) Chart C.
- (e) Second half of primer.
- (f) Two part music.
- (g) Flat seven and sharp four.

GRADE IV.

- (a) Review equally divided pulsations.
- (b) Teach unequally divided pulsations.
- (c) Minor scales.
- (d) Two-part music.
- (e) Chromatics.
- (f) Chart D.
- (g) Book One.

GRADE V.

- (a) Chart E, which involves more difficult examples in melody and rythm.
- (b) Book, Second Reader (complete).

GRADE VI.

- (a) Chart F.
- (b) Book, Third Reader.

GRADE VII.

- (a) Half of Chart G.
- (b) Book, Fourth Reader.

GRADE VIII.

- (a) Finish Chart G.
- (b) Begin Fifth Reader,
- (c) Last half of year teach the bass clef.
- (d) Finish book.

GRADE IX.

- (a) The Advanced Reader, or
- (b) The Cecelian Songs, Book IV.

HIGH SCHOOL.

The work is elective.

Study songs of various composers.

The length of time assigned for lessons varies in the different grades; twenty minutes in the primary classes; thirty minutes in the grammar classes; and forty-five minutes in the High School.

Every grade school is visited once in two weeks. In the High School there is a lesson every week, and in addition to this the music for the devotional exercises on Thursday mornings is under the direction of the supervisor. The Glee Club has a lesson every week, one hour, outside of school time. Every lesson in the grade schools includes vocal exercises, chart work, oral and written dictation, exercises from the book, and songs. The teachers are frequently requested to conduct part of the lesson while the supervisor observes. We have found this an important factor toward efficient teaching. It helps the supervisor to understand the teacher and this makes it possible for him to be of more assistance to her.

During the year, we have had frequent teachers' meetings for instruction and informal talks, usually given by the supervisor. At one of these meetings Mr. Samuel W. Cole of the New England Conservatory delivered a lecture on "The Value of Music as a School Subject." Whenever it has been discovered that there was need, individual instruction and assistance have been freely given to the teachers.

In conclusion I wish to bring to your attention the conditions that exist in the High School. Since coming to Melrose I have done all in my power to encourage the boys to take part in the music. In the grammar schools I found that many were excused merely because they *thought* that they could not sing. By insisting that none should be excused, all have become interested and are now able and eager to take part in the weekly work. In consequence we have, this year, the best "bass" in these grades that we have had since I began my work here. The boys are interested and are able to read their music from the bass staff fairly well. This has been the result of great perseverance. It seems a pity that these boys should not have at least one year's work in music in the High School, that they may

become more efficient in understanding and reading music by note upon the bass staff. It has been my experience that boys are willing to do in music what they are able to do well, and the reason why we have so few basses in our High School chorus is, simply, that the boys cannot read the music readily.

Therefore I would suggest that the first year's music in the High School be made compulsory instead of elective, those only being excused who are practically tone-deaf. I believe that this would insure better High School music and would enable the pupils to understand the printed page of music much better than heretofore.

Respectfully submitted,

A. C. SAUNDERS, Supervisor.

REPORT OF SUPERVISOR OF DRAWING.

F. H. NICKERSON, Superintendent of Schools:

At your request I submit the following report on drawing for the past year. In writing this report perhaps it will be well to give a general idea as to what our aim in this work is, and also of my work of supervision.

The aim of elementary instruction in art is not the making of an artist or even beautiful drawing sheets. The work in drawing in our schools should tend, as some one has rightly said, "to the making of broad-minded men and women."

There are many pupils who have talent, but with the rank and file, our aim must be a cultivated eye that takes pleasure in refinement of color and form, and the ability to express ideas by drawing as well as by language; and these results come through patient effort on the part of the pupil.

In each grade the pupil is taught color, object drawing, mechanical drawing and design. Beginning with the first year progress is made each year in these lines of work so that at the end of the school course the pupil has been taught to appreciate good color and form whether in nature, dress, decoration, or design.

My general plan of supervision is to give a lesson of one half hour in the grammar grades every two weeks, and to visit one primary room every two weeks to inspect the work. We have grade meetings to plan the work and many teachers visit me during my office hour on Monday afternoons for special help. This hour is for all teachers who require extra assistance in their work.

The time allowed for drawing is one hour each week, which is short compared to many places. The course will be changed a little next year to conform with Manual Training, which requires more mechanical work and construction. This introduction of Manual Training into our schools is a great addition to our course and should, if possible, include every grade.

The High School work in drawing is a continuation of the grammar

course but we are so very short of models and casts that our drawing has not the variety it should have. I certainly hope that in the near future we may have an addition to those we now have.

In closing this report I wish to say that the work this year has been, on the whole, better than in any previous year.

Thanking the Committee and Superintendent for their support in my work and the teachers for the good work they have done, I remain,

Respectfully,

WILLIS S. CARTER, Supervisor.

REPORT OF SUPERVISOR OF PENMANSHIP.

MR. F. H. NICKERSON, Superintendent of Schools:

When I began in October to supervise penmanship in the lower grades, the first step I took, of course, was to examine the writing of the pupils.

I learned during that examination that pupils wrote entirely with the finger movement; that in several of the rooms they sat in unhealthful positions; and that most of the pupils held the pen so awkwardly, and gripped it so firmly as to prevent freedom and control of the writing muscles.

I immediately planned work to overcome these defects. In the three succeeding weeks I had meetings of the fifth, sixth, seventh, eighth and ninth grade teachers. At these meetings the plan of work was outlined. The defects in position, pen-holding, and movement were carefully explained. The teachers were shown from the standpoint of health and good penmanship the importance of having pupils sit at the desk in an easy, healthful position, and of holding the pen easily and naturally without any tension on the writing muscles.

The subject of movement was treated at length, because good movement is the foundation of good penmanship. The movement used by the best penmen, and the one taught by all teachers of penmanship is a combination of finger and arm movement, technically called the combined movement. The teachers were instructed how to conduct writing lessons with special reference to the development of this movement, and they received the necessary copies and exercises to be used for this purpose.

I fully realized that to train pupils to develop a new set of muscles, so as to bring them sufficiently under control of the will to write well, would require much time and patience. I therefore instructed the teachers not to break up the finger movement so abruptly as to interfere with the pupil's writing in the other branches. We arranged that half of the writing lesson should be devoted to movement exercises, and half to the copy book writing with the old movement. In this way the pupils are gradually changing finger movement for the combined movement, and it does not interfere with the writing they have to do in their regular work.

Since October I have spent on an average two afternoons a week

visiting the different grades, and ten hours in teachers' meetings. Six of the afternoons were spent in the sixth, seventh and eighth grades; the remainder in the ninth grades.

Taking into consideration that this work was begun only last October, that the pupils practice penmanship only one hour a week, and that I have only two afternoons a week to visit thirty teachers, I believe we have secured excellent results. The pupils' work during the writing lessons, and the specimens exhibited in the different classrooms speak for themselves.

Respectfully submitted,

G. WALTER WILLIAMS,

Supervisor.

VI. *Manual Training* : In my annual report for the year ending January 31, 1903, it was suggested "That the Committee take under consideration the desirability and possibility of making manual training part of the work in Melrose."

This suggestion was immediately referred to a special committee for investigation.

After careful consideration this sub-committee submitted the following report :

"To the School Board :

"The Special Committee appointed to consider the suggestion of the Superintendent of Schools in his annual report to the effect that manual training be made a part of the work in the schools of Melrose, finding itself in accord with the above-mentioned suggestion, would recommend that manual training be introduced into our schools as soon as the necessary means for carrying on such work are available, and that the Superintendent of Schools be authorized to visit the Horace Mann School in connection with the Teachers' College in New York City at his earliest opportunity to observe the system of manual training in use there, and that the necessary expense of such visit be paid from the contingent fund of the School Department."

Signed : GEORGE H. HILL,

BESSIE B. DEARBORN,

SARAH A. DAY,

Special Committee.

This report was approved unanimously by the full committee and measures were adopted that made it possible during the latter part of the year to purchase the necessary benches and tools to equip a room for wood-working in the

basement of the High School building. Following this action and at the first regular meeting subsequent to the organization of the present Committee in January, Aimee C. Ferson was elected Director of Manual Training in our schools.

The work carried on at present under this head includes wood-working for boys and sewing for girls in grades VII, VIII and IX and cardboard work for both boys and girls in grade VI.

It is fortunate for the best interests of the City that the School Committee has seen its way clear to take the necessary steps to provide an opportunity for boys and girls to secure training in a manual line in our public schools.

My reasons for advocating the introduction of this line of work into our schools were given briefly in the annual report for the year ending January 31, 1903, and need not be re-stated at this time. The following quotations from the utterances of prominent educators upon this subject set forth fairly, I think, the prevailing opinion among schoolmen regarding the value of manual training as a school subject.

Fabian Ware, a celebrated English student of social, economic and educational questions, in discussing the manual training idea in his work on "Educational Foundations of Trade and Industry" says: "The manual training schools of America are an attempt to prove that '*learning by doing*' is the best means of promoting natural development."

President Thompson of Ohio State University says of the educational value of manual training: "Observation, comparison, accuracy, judgment, are the alphabet of manual training. . . . There is as much of any of these in shoving a plane as in shoving a pen. From the view-point of training or discipline one may be as useful as the other. . . . It is confidently affirmed, therefore, that manual training is justified from pedagogical considerations. *Nothing stimulates and quickens the intellect more than the use of mechanical tools, when used under the direction of competent teachers.* The boy who constructs is the boy who thinks, deliberates, reasons, and concludes."

Dr. MacAlister, President of Drexel Institute and formerly Superintendent of Schools in Philadelphia, said in connection with the introduction of manual training into the Philadelphia Schools: "The conviction is gradually obtaining . . . in the public mind, that *every* child should receive manual training; that a *complete* education implies the training of the hand in connection with the training of the mind; and that this feature must ultimately be incorporated into the public education."

Superintendent Seaver of the Boston Public Schools says: "Manual training is essential to the right and full development of the human mind, and therefore no less beneficial to those who are not going to become artisans than to those who are."

Professor James of Harvard University in an article in the Atlantic Monthly for March, 1899, expressed himself thus with regard to the educational value of manual training: "The most colossal improvement which recent years have seen in secondary education lies in the introduction of the manual training schools; not because they will give us a people more handy and more practical for domestic life and better skilled in trades, but because they will give us citizens with an entirely different intellectual fiber. Laboratory work and shop work engender a habit of observation, a knowledge of the difference between accuracy and vagueness, and an insight into nature's complexity and into the inadequacy of all abstract verbal accounts of real phenomena, which once wrought into the mind remain there as life-long possessions."

It appears from the foregoing statements that the action of the Committee in making manual training part of the work of the Melrose schools is in harmony with the best educational thought of the day.

Objection to manual training as a school subject is sometimes made from a failure to grasp the real purpose for which its advocates wish it taught. One who fails to look beneath the surface to the fundamental principles involved in the education of an individual is likely to think of manual training as having a place in the schools to train principally for skill in handiwork. Such is not the proper conception.

Regarded simply as a means for the development of technical skill, it is questionable whether a community would be justified in incurring the expense necessary to maintain manual training in its schools.

Regarded, however, as ministering to an educational need in securing the complete development of the child, and carried on with reference to this larger purpose, manual training seems not only a proper but a necessary part of any well-planned school system.

SOME WAYS IN WHICH PARENTS MAY HELP THE SCHOOLS TO
BECOME MORE EFFICIENT.

During the past school year it cost Massachusetts something over \$14,500,000 to maintain its public schools. Practically 30 per cent. of the total tax levy throughout the Commonwealth is devoted annually to the support of the public schools.

Such an expenditure suggests that the public believes that an efficient school system supported at public expense and open to all is a vital element in the existence of a democratic state. It is true, undoubtedly, that, on the whole, the public does place a high value upon education; but it is also true that the average citizen is strangely neglectful and alarmingly ignorant of the actual work that is done in the schools.

I am confident that the citizens of Melrose follow the work and administration of the schools as closely and as intelligently as in the average community at least, but reports which I have received indicate that practically seventy-five per cent. of the parents having children in our schools do not visit the schools in their *regular work* from the beginning to the close of the school year. It is not an uncommon thing, also, to find parents who not only are unacquainted with their children's teachers, but also are unable to recognize them by sight. I have even had a parent come to me with a complaint regarding the management of his child in school who knew neither the grade in which the child was, nor the teacher's name.

Such apathy regarding interests so vital as those at stake in the schools cannot be atoned for by furnishing fine school buildings, trained teachers, and skilled supervision. It is useless to expect the best results from our schools unless through more frequent visitations to the school-room fathers and mothers get into closer contact with school work than they are as a rule.

I am well aware that there are many difficulties in the way of more frequent visitation to the schools by parents; nevertheless, if fathers and mothers had a keen realization of the value of such visitation, I believe that the majority would find it quite possible to do vastly better in this respect than they do.

The following are a few of the benefits from frequent visits to the schools by parents.

First, frequent inspection of school work by fathers and mothers, if done in a sympathetic spirit, helps both teachers and pupils.

No one thing will do more to encourage a teacher to more faithful effort for a child than to have the parents manifest their interest in her endeavors by an occasional visit and an appreciative word. Such manifestations of interest in the work of the schools tend, also, to develop in the child a higher idea of the importance of school work; and this higher valuation which the child comes to put upon the work in which he is engaged is likely to result in better effort on his part.

Again, through this closer contact with the home, teachers are able to learn much regarding the physical weaknesses, the temperamental peculiarities, and the home life of the pupils that is distinctly helpful in teaching and in management.

Another possible result from more frequent visitation to schools by parents is a better understanding, on their part, of the spirit of the teacher, the purpose of school officials, and the character of modern education. If parents understood these things better than they do as a rule, I feel certain that there would be less fault-finding about teachers and school officials and less unintelligent criticism of the inefficiency of the modern schools.

I recall an intelligent citizen of Melrose who had vigorously criticised the poor character of the reading of young people trained in the public schools of the present day. It was my good fortune to be one of the company to whom the criticism was made. Later I took my friend through several grades in one of our schools and let the children read to him from material selected at random. At the close of the inspection he acknowledged the error of his criticism and confessed freely his admiration for the readiness with which the pupils grasped the ideas from the printed page and the pleasing manner in which they expressed those ideas. His criticism had been made honestly. The trouble was that he had insufficient knowledge of the facts in the case. The basis of his judgment was the stumbling effort of his own child—a poor reader, naturally—when asked to read aloud occasionally at home from the evening paper.

Upon evidence as insufficient as the above, parents too frequently form and express adverse judgments upon the work or management of the schools and in so doing injure the schools to a greater or less degree by shaking the confidence of the public in their efficiency.

A better understanding on the part of parents of the work of the schools would be found helpful, also, in counteracting the pernicious influence of such articles as that which appeared in the *Ladies' Home Journal* for January, 1902, under the title, "Dedicated to the American Parent." The article referred to is made up of quotations from personal letters to the editor calling attention to the way in which, it is alleged, children are overworked in the schools today.

The following extracts are characteristic of the whole article:

"After seeing my frail little boy of ten sent home with twenty-five sums in cubic arithmetic, reaching home at half past four and working until ten, the poor little brain too tired with cubic inches to sleep, I withdrew him. Protest to the school availed nothing."

"Compelled to bring home seven long lessons every evening, after being in school from nine until four, I have just taken my little girl of eleven out of the public school."

"With our two boys it was study until ten at night and at it again at five in the morning. So we stopped schooling."

"Clever as he is, my little boy of ten cannot master the lessons he brings home, although he works until nine every evening. Repeated headaches decided us yesterday to take him out of school."

It is charitable to believe that, if the editor of the Ladies' Home Journal knew the work of the schools as he ought before going into print either in approval or disapproval of any phase of that work, he would refrain from scattering broadcast as a basis for generalization regarding the work of the schools statements that are in no wise true with reference to school systems in general.

Now, until the majority of parents can be induced to visit the schools frequently enough to know what is actually being done in them, such utterances as the foregoing given currency through the medium of a respectable publication will work no little injury by arousing in the public mind a feeling opposed to working pupils in the schools up to the point that is best for them.

It is more to be feared that pupils will be under-worked in our schools than that they will be overworked. I heartily endorse the sentiment of the President of Radcliffe College when he says: "The first lesson of education is the lesson of getting down to hard work, and doing the work thoroughly."

Unfortunately too many parents, in their solicitous desire to make the educational pathway of their children as smooth as possible, fail frequently to support school officials in requiring from pupils that application to school tasks which is desirable.

Now it is hardly possible to secure the best results in schools unless the present popular conception along this line yields to the belief on the part of parents that the welfare of young people will be advanced by the adoption of a more strenuous policy with respect to their education.

Another way in which parents may help the schools is by reading more largely than they do the special literature of education. Comparatively few parents either subscribe for a single paper or magazine dealing distinctly or to any large degree with educational interest or read to any great extent

from books bearing directly upon the problems of education.

The progress of a school system in any community depends largely upon the popular understanding of the purpose underlying the administration of the schools, the popular grasp upon general educational principles, and the popular conception of education. School officials may have the best of ideas but they can be incorporated into the school system only as fast as the public sentiment of the community will permit. Hence the necessity for fathers and mothers to read more largely along the line of the literature of education, in order that there may be a more enlightened public opinion in educational affairs.

Not only will such reading as I have suggested result in a better understanding on the part of the public of the problems of education but also it will tend to develop in the minds of fathers and mothers a keener sense of their individual responsibility in the matter of the education of young people.

The public outside the legally constituted school authorities is a more important factor in education than is ordinarily conceived. I would not for a moment undervalue the work that the schools have done and are doing, but I cannot escape the feeling that they are less potent than popular thought holds them to be in determining a child's future as a citizen. Carlyle refers to this thought in the following words in his "Life of Sterling:" "To all of us, the expressly appointed school-masters and schoolings we get are as nothing compared with the unappointed, incidental, and continual ones, whose school hours are all the days and nights of our existence, and whose lessons, noticed and unnoticed, stream in upon us with every breath we draw." Carlyle's statement may be an exaggeration; but more and more the thought that he voices is growing within me as I see, frequently, boys and girls with whom the schools seemed to do little assuming commanding positions in various lines of activity after leaving the schools, and as I see also, sometimes, those who in school life gave indications of promise shaping their future careers in accordance with low ideals in spite of all that the schools have done to stimulate high

aspiration. It is true that a child gets from the school the major part of his formal training in the various lines that constitute the school curriculum, and that the school is a powerful factor in helping on the evolution of a child into strong womanhood or manhood; but it is well to understand that there are outside forces constantly exerting an influence upon the child's mental, moral and physical being that, after all, will largely determine what he will be as an adult, and that the highest educational interests of the child can be secured only by bringing these outside forces into co-operative action with the schools.

Again it would be found helpful to the schools if parents would see that, so far as possible, pupils presented themselves at school in a fit condition physically to profit by the work of the schools. This requires (1) that parents should give more attention than they ordinarily do to the diet of children and (2) that there should be closer supervision of the social demands upon young people than is frequently given.

Much of the so-called dullness and stupidity of children as well as much of their emotional estrangement that manifests itself in irritability, viciousness, etc., is due to a degree of exhaustion of the nerve cells of the brain rather than to intellectual deficiencies or inherited dispositional tendencies.

Scientific study of children has demonstrated that one prolific source of such exhaustion of nerve cells is inadequate brain nutrition. Nerve cells repair their waste by absorbing from the blood the materials needed for their upbuilding. Naturally, if the proper food material does not reach them, they are constantly in a more or less exhausted state, the degree of which varies with the amount of their activity. It behooves parents, therefore, especially mothers, to study the science of nutrition as affecting the nervous system of children, if they would rear children who are not only physically but also mentally and morally at their best.

So vital is the matter of diet as relating to the moral development of an individual that one scientist has said: "If you will allow me to feed the criminals for a hundred years I will abolish crime."

Another source of exhaustion of nerve cells or brain fatigue, especially in the thickly settled communities, is the excessive strain that is put upon children in social ways today.

Sometime ago I submitted to the pupils of the High School and of the eighth and ninth grades throughout the city a series of questions among which were the following inquiries:

(a) Please state under each of the following headings the number that you have attended during the last two months (January and February).

1. Social gatherings (dances, card parties, birthday parties, etc.)

2. Literary gatherings (lectures, debates, readings, etc.)

3. Church gatherings (young people's meetings, socials, reunions, Y. M. C. A. affairs, etc.)

4. Musical affairs (concerts, operas, private gatherings, etc.)

5. Athletic meets.

6. Theatres.

(b) Are you restricted in any way by your parents or guardians regarding attendance upon any of the above mentioned gatherings on either of the following school days, Monday, Tuesday, Wednesday, or Thursday?

In order that there might not be any restraint felt in answering, pupils were requested not to sign their answers but simply to indicate the grade that they attended.

Five hundred and forty-six different pupils returned answers and it was found that 64% of the entire number were not restricted in any way regarding attendance upon socials, etc., on either Monday, Tuesday, Wednesday, or Thursday evenings during term time.

Now when it is taken into account that during a period of two months in which schools were in session these pupils had attended in the aggregate six thousand five hundred and sixty-five gatherings of a social nature, that to a greater or less extent drew upon their nervous force, one is led to believe that, if parents were more careful along this line than they frequently are, pupils would be better able to profit by the instruction of the schools and there would be less complaint regarding over-pressure in school requirements.

SUGGESTIONS.

I. *Salaries of Teachers* : In my annual report for 1901 and again in the report for 1902 it was suggested that the Committee consider the advisability of some action with respect to salaries of teachers that might protect the City from the loss of so many of its best instructors.

I am pleased to record that the Committee has taken action in several instances during the past two years that has had a tendency to lessen the possibility of such loss.

However, I feel that more remains yet to be done in this line in order that the best interests of the schools may be subserved. In view of the educational loss to the City by frequent changes in the force, to which reference has been made previously in this report, I venture to repeat for your consideration the two opening sentences of my suggestion in this line in the report of last year. They are as follows : "In order that there may be a definite policy with respect to the salaries of our teachers, outlined and understood by all, I would suggest that the Committee consider the advisability of adopting a schedule of salaries for the principals throughout the City and for the High School teachers. It would be well at the same time, I think, to consider the possibility of increased salaries for the grade teachers." I trust that the merit of this suggestion may receive the careful thought of the present School Committee.

II. *Medical Inspection in the Schools* : In the report for 1902, I recommended "That the Committee take under consideration the advisability of adopting some plan for regular medical inspection in our schools." Additional experience has strengthened my belief in the need of such inspection and the suggestion is again placed before the Committee for consideration.

Conversations with the local Board of Health with respect to action in this line warrants the belief that the School Committee may expect the co-operation of that Board in an effort to secure proper medical supervision throughout the schools.

III. *Additional School Accommodations* : During the past

four years the registration in our ninth grades has increased 45 3-5 per cent. There are at present in grade IX 169 pupils. Four rooms are given up to these pupils, two at the Washington School, one at the Lincoln School and one at the Franklin School.

The present registration in our eighth grades indicates that, at the lowest calculation, we are likely to have 200 pupils in grade IX in September, 1904.

Such a registration would require the opening of an additional ninth grade room.

At present the only available place in our grammar buildings for an additional ninth grade is the hall at the Lincoln School. The hall at the Washington School is already in use by a ninth grade.

While it will be possible to provide for our ninth grades during the coming year by using the hall indicated, the time is not far distant, evidently, when it will be impossible to care for these grades without enlarging our school accommodations at some point. Therefore it would seem wise at this time to consider briefly possible steps in this direction in order that the need may be met intelligently when it shall come.

I have had in mind the possibility of centralizing the ninth grades at the Sewall School building and placing them under the administration of the High School. This would require the removal of the primary grades from that building. For the accommodation of those grades the Mary A. Livermore building could be enlarged by an extension westward sufficient to provide at least four additional rooms.

In order that the ninth grades might be properly accommodated at the Sewall building, it would be necessary to remodel the present structure or to erect a new one.

To carry out this idea would require considerable expenditure upon school buildings, but, if the growth of our school population continues, a larger or smaller outlay for additional accommodations will be absolutely necessary in the near future, and the plan suggested has advantages from an educational point of view that make it worthy careful consideration.

1. If the ninth grades should be brought together at the Sewall building as suggested it would be possible to have them taught to better advantage than when located in different parts of the City. Being near the High School it would be quite feasible not only to extend over them the administration of that school but also to have certain of their studies, such at least as are continued in the High School, directed by the High School teachers. This would tend to make the transition from the grammar to the High School less abrupt and trying to the pupils.

2. There would seem, also, to be an advantage in transferring the primary grades, that are now located in the Sewall building, to the Livermore building.

The distance between the Sewall and the Whittier Schools, the only two schools north of Upham Street and east of the B. & M. R. R., in which there are primary grades, is so great that pupils in grades I, II, III and IV attend school with great difficulty except in the most favorable weather. In fact there are parents who have hired teachers to give their children private lessons rather than to subject them to the task of walking the distance necessary in order to reach school.

To transfer the primary pupils from the Sewall to the Livermore building, on the one hand, would be a great accommodation to many children in the northeastern part of the section to which I have referred and, on the other, it would work no hardship to children in the southern part of the Sewall district, which extends only to Foster Street.

Inasmuch as the suggested change seems to have advantages both for the primary children and for the ninth grades, I recommend that the Committee consider the advisability of asking the City Government, in the near future, for an appropriation to enlarge the Mary A. Livermore building and either to remodel the Sewall building or to replace it with a structure more suitable for school purposes.

I desire, also, in this connection to call attention to a need existing in the south-eastern section of the City.

The single-room Ripley school building is not only inadequate for the growing needs of that section but it is located

so near the Malden line that it accommodates the pupils of a very limited area.

Children living near the eastern end of Grove Street and on the adjacent part of Swain's Pond Avenue, and those to the eastward thereof, after passing through the first four or five grades, are obliged to walk either to the Washington, the Horace Mann, or the Livermore Schools, a hardship in either case, while those in the immediate neighborhood of the Ripley School are transported to the central schools at the City's expense.

Now, if the present Ripley School should be discontinued and a larger building erected in the neighborhood of the junction of Goss avenue and Harold Streets or to the southward thereof, several beneficial results would follow :

(1) The needs of this section of the City with respect to school accommodations would seem to be more nearly met than at present, (2) the congestion in attendance that is making itself felt especially in the Livermore and Washington Schools would be relieved in a measure, and (3) the expense and inconvenience involved in transporting pupils from the Ripley district to the central schools would be removed.

It seems proper, therefore, for the Committee to give this suggestion consideration.

IV. *Home Study.* The attention of the Committee is called to this subject, not because I have any sympathy with those hysterical individuals who occasionally rush into print with exaggerated utterances upon the "Slaughter of the Innocents" through the exacting demands of the schools in the way of home study, but because I have come to feel that some adjustment of our schools is possible that will largely remove the necessity of requiring home study of pupils in our grammar grades and at the same time will enable us without imposing greater burdens upon young people to accomplish more for them in our schools than we now do.

Several years of experience and close observation have convinced me that, when a young person breaks down in health during the period of school life, it is only in rare

cases that the collapse can be properly attributed to the pressure of school tasks.

It is probably true in many cases that, combined with other drafts upon nervous force, school tasks assist the break-down, but usually the real cause is either poor physical condition, for which the school is not responsible, or some outside strain that might easily be removed by the right kind of parental supervision; but to give currency to the idea that the school is the primary cause is not only a mistake but is calculated to injure the work of the schools, because it gives rise to a sentiment that makes it difficult to require of pupils that degree of application to school tasks which makes for their highest educational welfare.

Our present plan of administration in the schools of Melrose calls for a half-hour of home study in grade VII, one hour in grade VIII, and one and one-half hours in grade IX.

It has seemed best to ask for home study in these grades (1) in order that pupils might acquire in a measurable degree the power and habit of independent study that will assist them in meeting the requirements of work in the High School, (2) because the present daily school session of $4\frac{3}{4}$ hours in the grammar grades is too short to afford opportunity in school for pupils to do the amount of study that they should in preparing assigned work. While school authorities would seem to be justified, on general principles, in asking for more or less home study on the part of pupils, I am inclined to consider the attempt to get effective home work from grammar school pupils under modern conditions as productive of less educational benefit to them than might be accomplished in another way.

There are three fair assumptions in this connection, (1) that the opportunity for home study in the majority of homes is such that the pupil works at a disadvantage, if he works at all, (2) that few pupils in the grammar grades have sufficient sense of responsibility or mastery of self to go to their home study voluntarily, and that the average parent is not sufficiently insistent to have the child do his outlined work well, (3) that, even if pupils apply themselves faithfully to home study, the results are not in proportion

to the time spent because they do not know how to work advantageously.

It is a well-founded complaint from High School teachers that pupils do not know how to study when they come from the grammar school, so that they get from the earlier years in the High School, at least, far less than they might if they knew how to use the tools of their work to better advantage.

This lack in the training of grammar school pupils is due to a great extent to the fact that school sessions as a rule are too short to give the teacher proper opportunity to teach pupils how to study.

In my judgment, one of the chief ends in school training should be to teach pupils how to do intellectual work effectively and economically. If this can be accomplished in our schools, we shall have done much in the way of really educating children.

I would suggest that a longer daily school session for the upper grammar grades might result in distinct gain to our young people.

Several reasons incline me to this belief.

1. If the daily session should be lengthened by a half-hour and that time given up to study, pure and simple, the desired opportunity would be afforded the teacher to teach pupils how to work as they should. I believe that, in the case of the average child, a half-hour of such work in the school room would be worth more in the preparation of the next day's task than twice that time in home study.

2. The opportunity of preparing lessons at school under the direction and stimulus of the teacher would enable the pupil to come to his home practically free from whatever nervous strain may come from the omnipresent thought of a lesson to be prepared at some time before the next session of school begins.

3. It is probable, also, that if lessons should be prepared at school, as indicated, teachers would find it easier to hold pupils responsible for good results in their work.

If it be objected that the lengthened session would injure pupils physically, one may fairly reply that it is quite possible to believe that the relief which the child would get with

respect to home study, done as it is in the majority of cases, would fully offset any strain occasioned by the longer school session.

As a matter of fact, there is little reason to suppose that a normal child will suffer injury from $5\frac{1}{4}$ or even $5\frac{1}{2}$ hours daily during about one half the year in a school-room that is reasonably well lighted and ventilated, considering that the daily session is broken up at intervals by physical exercises and by an intermission of from one and three-fourths to two hours at mid-day.

I feel that the Committee may well consider whether or not any arrangement along the line of the foregoing suggestion is feasible in our schools.

V. *Vacation Schools* : The estimated value of the City's permanent investment in school property, i. e., lots, houses, and fixtures, is approximately \$450,000.

Under present conditions this expensive plant lies idle nearly one-half of the calendar year. To me it appears hardly an economical business proposition to close our school property to use for such a large portion of the year.

I believe that the best interests of the community demand that a portion of the school plant shall be kept in operation during part, at least, of the long summer vacation, and that true economy would justify such additional expenditure of money as would be necessary to maintain vacation schools during five or six weeks of the summer for those children who remain in Melrose during that period.

To ascertain whether or not there exists any particular need for such schools in Melrose, I issued in the earlier part of May, 1903, the following circular to parents having pupils in grades II to VII inclusive, the grades most likely to be affected by a vacation school.

MELROSE, May 5, 1903.

Dear Friend :— In order that it may be determined whether or not the educational interests of Melrose may be advanced by any fuller use of our educational plant, you are respectfully requested to answer the following questions and to return this sheet properly filled out to the school that your child attends.

I shall consider it an added favor if the returns are made not later than Friday, May 15.

This request for your co-operation is made strictly for educational purposes. The answers will be inspected only by the Superintendent of Schools and his clerk, and all statements and names will be considered confidential in nature. Yours respectfully,

F. H. NICKERSON,
Superintendent of Schools.

1. Is it probable that your child (or children) will spend the larger part of the summer vacation in Melrose?

Answer:

2. Do you think that children who remain in the City during the summer would be benefited by attendance upon a vacation school for a portion of the vacation, provided the work in such school is mainly along the line of manual training, domestic science, nature study, etc., and the sessions are short and confined to the earlier hours of the day?

Answer:

About fourteen hundred circulars were sent out. Thirteen hundred and seventy-eight replies were received. Seventy-eight per cent. of those who replied stated that their children would probably spend the greater part of the summer vacation in Melrose. Seventy-nine per cent. heartily favored the idea of a vacation school; sixteen per cent. did not favor the idea; and five per cent. were in doubt.

The above facts indicate that there exists, in the minds of parents, a need for vacation schools in Melrose.

The following answers to the second question in the circular express the prevailing feeling among the seventy-nine per cent. who indorsed the idea.

One father writes: "Employment of the kind indicated, I shall even be willing to pay for. Children, parents and the City will reap much from the idea. May you succeed."

Another father says: "Yes, I think it a fine idea, and wish that manual training, domestic science, etc., might be included in the regular school course, as it is done in surrounding towns and cities."

Still another father expresses himself thus: "I trust that this idea will meet the approval of all, as I most heartily indorse it."

A mother writes: "Such a school would be of greatest possible benefit, especially to children who are left mainly to their own devices on the streets during vacation."

Another mother says : "Yes, I think it will be one of the greatest things the City could do for the children."

As a further indication of the City's need in this direction I submit the following communication which was sent me in response to a request for information regarding the success of the vacation school that was conducted under the charge of the Educational Committee of the Melrose Woman's Club during the summer of 1903.

MELROSE, February 24, 1904.

F. H. NICKERSON, Superintendent of Schools.

DEAR SIR: In reply to your letter of inquiry in regard to the vacation school of last summer, may I go back to the beginning?

You doubtless know that the undertaking was the direct outcome of a talk you gave at a Round Table Conference just before the close of the school year. Members of the Educational Committee of the Melrose Woman's Club who were present felt impressed with the urgent need of such work in our midst and at once made preparation to begin in an experimental way.

Hampered as they were by the lack of time (for vacation was at hand) and with no funds, there seemed no other way to begin than with a class of girls in sewing. *That* would require but little outlay, only for the necessary equipment, for of course the ladies themselves would act as instructors.

If the experiment proved a success, then the experience gained would be helpful another year.

Permission to use the Sewall School building was given by the School Committee and an announcement of the opening class in July was made in the local papers.

Eighteen children had signified their intention of attending and materials had been prepared for a class of thirty. All our plans were upset for about one hundred and fifty children were present the first day, twenty-five of them being boys. Realizing that we were incompetent to take care of such numbers and trusting blindly to Providence for help in meeting expenses, a trained teacher was engaged to superintend the work, the ladies acting as teachers under her direction.

Three sessions of one and a half hours each were held each week for five weeks. The attendance was excellent, two hundred and two being the highest number recorded in a day and averaging about one hundred and seventy-five.

The pupils, varying from five to seventeen years of age, represented all classes of society, the poorer class predominating of course.

Discipline was not needed except in the ungraded room in which there were boys. The interest of pupils as well as teachers never flagged even during the hottest of days.

It was the desire of our Superintendent to teach the children in

accordance with the method generally adopted in public schools so that nothing would have to be unlearned if ever sewing should be added to the public school curriculum. Neatness and accuracy were taught and reflected in the clean faces and attire of the children.

The five weeks passed quickly. It was the desire of all to continue, but the number of regular helpers was insufficient and, last but not least, the financial situation had to be considered. With the strictest economy, supplying everything as we did, and paying superintendent and janitor, bills were accumulating and had to be met.

The disappointment of the children at the closing of the school and the eagerness with which they asked if the sewing would not be carried on through the year, showed what they thought of vacation work. The disappointment was so general that at one time the ladies questioned the advisability of conducting a class on Saturdays throughout the school year, and the children were directed to ask their parents how many would promise to attend such a class, paying ten cents for each lesson. About sixty-five expressed their willingness to do so and at once registered.

Although little seems to have been accomplished, the committee and other ladies who assisted felt that *it paid*. It had been proved to their satisfaction that such work was absolutely necessary in the long vacation to keep the children from idleness and lawlessness. To them it was not work but a pleasant occupation.

But this work must be extended. Boys as well as girls should be given an opportunity to expend their surplus energy. Sewing is hardly the thing for them, although the boys in our care seemed interested in the bags for their marbles and bats. It is the aim of the committee who took charge of this work to give the boys an opportunity this coming season to do card and wood work, and to give the children of both sexes out-of-door nature work under competent instructors.

We hope at no distant day to see this undertaking carried on by the City with trained teachers of experience directing it. That it can be of very great assistance in shaping the characters of our boys and girls is believed by all who have done vacation work and can be imagined by those who know of the large numbers of children who are compelled to spend their vacations year after year in Melrose with only an occasional day at the beaches.

Hoping this resume may be of assistance to you and thanking you for the help you have always so generously given this Committee of the Woman's Club, I am,

Very respectfully,

MARY P. HOLDEN,

Chairman Educational Committee.

I refrain from particular argument to prove the value to the community of this suggested extension in the use of the school plant because my present purpose is simply to place

the suggestion before the Committee for consideration with such facts as may be helpful in determining the merit of the proposition.

CHANGES IN SCHOOL COMMITTEE.

An unusually large number of changes have occurred during the year in the membership of the School Committee. Edward B. Marsh and Bessie B. Dearborn, whose terms expired January, 1904, declined to be considered for re-election; Fred L. Wood, whose term expired at the same time, removed to Springfield, Mass.; Susan F. Flanders, whose term would have expired January, 1906, resigned during the latter part of the year.

Messrs. Wood and Marsh had each served upon the Committee four years; Mrs. Flanders had served for a period of ten years, and Mrs. Dearborn for a period of eleven years.

The new members elected to fill the above vacancies are Oscar F. Frost, Dr. E. C. Fish, Isabelle I. Stantial and Mary F. Holden. While the withdrawal of so many experienced members from the Committee was distinctly a loss to the City, it is fortunate that men and women of the character of their successors are willing to give to the service of the schools the time and energy required for their successful management.

CHANGE IN SUPERINTENDENT'S CLERK.

At the close of the school year in June, Helen L. Burr, who for five years had been the efficient clerk to the Superintendent of Schools, resigned to pursue a course of study at Simmons college. Miss Burr was a woman of rare good sense and executive ability and her loss has been keenly felt in the administrative work of the schools.

From the list of candidates available for the vacancy selection was made of Rosetta M. Pendleton. Miss Pendleton is a native of Melrose and was graduated from our High School in the class of 1903.

I desire to commend the faithfulness with which she has performed the various duties of her position.

CONCLUSION.

No one is in a position to appreciate better than myself the fact that our schools are far from perfect. I believe, however, that steady improvement in their efficiency is going on.

Not all has been accomplished during the past year that I had hoped to see, but I am confident that, in point of actual accomplishment and in power to advance for the year to come, the school system of Melrose is a little better off today than it was a year ago.

In closing this report, I desire to express my appreciation of the faithful work of our teachers; of the spirit of co-operation in school affairs manifested by our citizens generally; of the courteous bearing of our pupils, as I have gone among them; and, finally, of the unfailing support given me by the School Committee.

These conditions contribute much to lighten the labors of a Superintendent of Schools, as well as to render his efforts effective.

Respectfully submitted,

FRED H. NICKERSON,

Superintendent of Schools.

April 4, 1904.

APPENDIX.

MELROSE HIGH SCHOOL.

GRADUATING EXERCISES.

CLASS OF 1903.

CITY HALL, EVENING OF JUNE TWENTY-FOURTH AT EIGHT O'CLOCK.

PROGRAM.

INVOCATION,

REV. THOMAS SIMS, D.D.

"UP, SAILOR BOY, 'TIS DAY," *F. F. Bullard*
GLEE CLUB.

ADDRESS, "Knowledge and Power,"

REV. EDWIN H. HUGHES,
President Elect of De Pauw University.

"THE DAFFODILS," *King Hall*
GLEE CLUB.

AWARD OF PRIZES GIVEN BY FRANKLIN FRATERNITY.

"SNOWFLAKES," *F. H. Cowen*
GLEE CLUB.

PRESENTATION OF DIPLOMAS,

HIS HONOR, MAYOR SIDNEY H. BUTTRICK.

"FAREWELL SONG," *Wiegand*
GLEE CLUB.

CLASS OF 1903.

“*Esse Quam Videri.*”

Adams, Anna Brooks	Loveland, Don Everett
Adams, Nina Arritta	Merrill, Alice Louise
Baker, Charles Everett, Jr.	Mitchell, Guy Taylor
Blodgett, Ernest Frank	Mower, Bertha Morrell
Boylen, Florence Elizabeth	Noble, Grace Helen
Bragdon, Ralph Mayne	Pendleton, Rosetta Mabel
Bridgewater, Georgie Mary Scott	Perry, Harold Edwin
Buttrick, Sibyl Andrews	Pettengill, Heman Judson, Jr.
Childs, Irene Mae	Powers, Barnard
Churchill, Isa Mildred	Reed, Harold Douglas
Cobb, Elisha Wilbur	Reilly, Marybelle
Cummings, Ethel May	Slade, Mary Heywood
Duncan, Harold Stephen	Smith, Clarence Grover
Durrell, Stella May	Smith, Mabelle Alice
Foster, Martha Todd	Soule, Mary Eliza
Gile, Philip Lindsey	Storey, Sherwood Lindsay
Green, Frank Wallace, Jr.	Tucker, Frank Edward
Hill, Marguerite Elizabeth	Underhill, Chester Jay
Holden, Lillian	Upham, Rachael Louise
Hurley, Herbert Daniel	Vaughn, Harry Nathan
Keeney, Bertha Elizabeth	Waterhouse, Edwin Clinton
King, Mary Nickerson	Winn, Harold Francis
Kitching, Albert Harper	Wood, Ethel Louise
Laycock, Helen Louise	Wooldridge, Reginald
Wooldridge, Ethel Grace	

CLASS HONORS.

Philip Lindsey Gile

Stella May Durrell

HONOR LIST.

CLASS OF 1903.

Mary H. Slade
Nina A. Adams

Harold D. Reed
Marguerite E. Hill

CLASS OF 1904.

Florence M. Child
Marion H. Stafford

Helen M. Hill
Julius H. Serra

Caroline G. Whitney

CLASS OF 1905.

Florence W. T. Cooper
Annie B. Murray

Ester B. O'Brien

Ethel N. Day
Augustus B. Merry

CLASS OF 1906.

Gladys L. Damon
Ruth Hazard
Ethel L. Norris

Marion B. Gould
Helen W. Munyan
Zelma I. Stone

FRANKLIN FRATERNITY PRIZES.

ENGLISH (Senior Class)

Lillian Holden
Barnard Powers

ENGLISH (Junior Class)

ENGLISH (Third Class)
Mabel A. Van Riper

ENGLISH (Fourth Class)

Mabel A. Farnum
Helen W. Munyan

GEOMETRY (Open to all)

J. Herschel Serra.

ALGEBRA (Open to all)

J. Herschel Serra

GEOMETRY (Third Class)

ALGEBRA (Fourth Class)

Ira Mosher

MELROSE WOMAN'S CLUB HONORS.

Bertha Morrell Mower

Rosetta Mabel Pendleton

PUPILS PROMOTED FROM THE NINTH GRADE TO THE HIGH
SCHOOL, JUNE, 1903.

-
- | | |
|------------------------------|-------------------------------|
| *Adams, James Fowler | Fahey, Mary Beronica |
| *Aldrich, Gladys Viola | Farmer, Carrie May |
| *Anderson, Harold Whidden | Fenton, Geo. Edw. |
| Anderton, Frank | Flatley, Marguerite Christina |
| *Atwood, Roy Farrar | *Flett, Chas. Florian |
| *Bartlett, Jessie Warner | *Foley, Cornelius Alexander |
| *Batchelder, Alice Elizabeth | *Folsom, David Leighton |
| *Bean, William Kimball | *Folsom, Florence Nelson |
| *Berry, Emma Lillian | *Foster, Ethel Morrison |
| Berry, William Edwin | *Franklin, Clara Violet |
| Beshong, Ruth Carolyn | *Fuchs, Mary Caroline |
| *Bishop, Alfred Arthur | *Fuller, Lorin Lovejoy |
| *Bishop, Henrietta Viola | Furze, Alfred Ernest |
| *Bishop, Vita St. Clair | *Gerry, Elizabeth Teresa |
| *Blanchard, Carl Atherton | Grottendick, Ruth Converse |
| *Boyd, Christina Anna | *Guilder, Ruth Pierce |
| *Bragdon, Marston | *Hawkes, Chas. Arthur |
| *Brettell, Harry | *Hebblethwaite, Joseph Ralph |
| *Brittain, Mabel Louise | *Hill, Mahlon Wallace |
| *Brock, Phyllis Azile | Hill, Louise Esterbrook |
| *Brown, John Edwin | *Hinchey, James Henry |
| Buckley, Alice Mary | *Hinchey, Joseph, Jr. |
| *Buckley, Frances Mary | *Hodgkins, Dorothy Eveline |
| *Bullens, Jos. Daniel | *Holmes, Hazel |
| *Butler, Jos. Alvin | *Hunt, Nathaniel Kent |
| *Casey, Nora Marie | *Hyde, Louis R. |
| Casey, Jeremiah Thomas | *Hyland, Sumner Francis |
| *Chisholm, Lester Bury | *Jenkins, Carl |
| Church, Herbert Irving | *Jenks, Harold Gould |
| *Churchill, Bertha Frances | *Jenks, Mildred |
| *Clarke, Blanche Elizabeth | *Jennings, Marion Fuller |
| *Clifford, Alice Martha | *Jones, Stella Worth |
| *Creadon, Agnes | *Joslin, Blanche Towne |
| *Creadon, Rena Harriet | *Kellogg, Chester Elijah |
| *Cronin, George Neal | *Kingston, Edna Claire |
| *Cronin, Mary Alice | *Kirk, Amy Elizabeth |
| *Dearborn, George Godfrey | *Kirmes, Victor Hannon |
| *DeCecca, Louise Rose | *Lang, Beatrice May |
| Dragon, John, Jr. | *Lay, Daisy |
| *Dwyer, Catherine Agnes | *Laycock, Harold Goodwin |
| *Durrell, Josephine Thorpe | *Lawson, Gertrude Colston |
| *Estes, Edith Marion | Leach, Lila Belle |

- *Lewis, Mabel Louise
- *Lewis, Marion Dorothy
- *Linton, Grace Palmer
- *Locke, Daisy
- *Lunt, Herminia Kridell
- *Lunt, Laurena Kaler
- *Lux, Ellen Mary
- *Lyall, Harold
- *Lynde, Chas. Arthur
- *Mahoney, Dennis
- *Manley, Elmer Elsworth
- Mayo, Alice Irene
- *McAnanny, Alice Maude
- *McKay, Erminie Marie
- *Melchert, Doris Adelaide
- *Moor, Ruth
- Muehlberg, Freda
- *Murdock, Grace Eudora
- *Norris, John Oscar, Jr.
- *Nute, Josephine Wyote
- O'Brien, Wm. James
- *O'Keefe, John Benson
- *Osgood, Emily Neal
- *Page, Lillian Franklin
- *Parker, Ernest Wiswell
- *Parker, Ernestine Evelyn
- *Parsons, Charles Williams
- Payton, Maude Sarah
- *Pendleton, Walter Irving
- *Perkins, Dora Frances
- *Pillsbury, Ray
- *Pike, Beatrice
- Pratt, Dexter Guilford
- *Provandie, Irene Frances
- Ramsdell, Jessie Marion
- *Reed, Clarence Primrose
- Reilly, Wm. Bernard
- *Ricker, Clara Louise
- *Riley, Sadie Agnes
- *Sawin, Walter Harrison
- *Scribner, Alice Margery
- *Shapleigh, Helen Augusta
- *Sisson, Mary Louise
- Smith, Ira Dean
- Snowden, Henry Watt
- *Soule, Wm. Freeman
- *Spaulding, Frances
- *Spaulding, Lucy Spink
- *Sprague, Chas. Frederick
- *Stamen, Ida Sara Florence
- Stantial, Alfred Brooks
- *Stearns, Vera
- *Stebbins, Annie Emma
- *Stevens, Frances
- *Stevens, John Warren
- *Stevens, Katherine Alice
- Swain, Arthur
- *Swett, Marion
- *Thompson, Mildred Rose
- *Townsend, Irene
- *Upham, Irma Elmira
- *Vaughn, Douglas Norman
- *Walker, Louise Newell
- *Ward, James Haller
- *Wedger, Alice Dodge
- *Wells, Eleanor
- *Wells, Faustina Lander
- *Whitman, Arthur Holmes
- *Whitney, Wm. Brighton
- *Widner, Harry Walker
- *Wilkinson, George Warren
- Williams, Frank Loring
- *Wilson, Frank Harrison
- *Woodward, Mary Ames
- *Wolley, Harold Sampson
- *Young, Edwin George

*Entered High School in September 83%

ORGANIZATION OF THE SCHOOL STAFF.

December 31, 1903.

Superintendent of Schools.

FRED H. NICKERSON,

49 1/2 Lebanon Street.

Superintendent's Clerk.

ROSETTA M. PENDLETON,

179 Trenton Street.

CORPS OF TEACHERS.

HIGH SCHOOL.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
William C. Whiting..	Principal.....	Dartmouth College.....	1899
Alonzo G. Whitman..	Prin. Emeritus	Bowdoin College.....	1874
George H. Hutchins..	Sub-Master....	Bates College.....	1901
Kenneth Beal.....	English Dept..	Dartmouth College.....	1902
Annie C. Merritt....	Modern Lang.	Hanover (Germany) Normal Dept.....	School, Cours Seigne, Paris..1896
Margaret McGill....	History Dept..	Mt. Holyoke College.....	1900
Adelma A. Ballou...	Latin	Dean Academy.....	1887
Harriet C. Fairbanks	Algebra, Latin	Natick High School.....	1880
Hattie G. Ricker....	French	Lapham Institute.....	1884
Jennette Moulton...	Greek.....	Wellesley College.....	1899
Helen M. Armstrong	English, French	Boston University..	1900
Sara Fisher.....	History, Sten.	Boston University.....	1902
Amelia C. Ford.....	History, Eng ..	Radcliffe College...	1903
J. Thatcher Sears....	Eng., Algebra	Harvard University.....	1903
G. Walter Williams..	Business Dept.	Wilkesbarre (Pa.) Bus. College	1903

FRANKLIN SCHOOL, COR. FRANKLIN AND MAIN STREETS.

NAME.	GRADE.	WHERE EDUCATED	WHEN ELECTED.
Archer C. Bowen....	Principal, IX..	Bridgewater Normal School..	1901
Mary J. George.....	Prin. Ass't.....	Wakefield, Mass., High Sch..	1880
Rose D. Lanphear....	VIII	Boston University.....	1903
Louise G. White.....	VIII & VII..	Salem Normal School.....	1895
Alice C. Day.....	VII	Salem Normal School.....	1900
Marguerite Pierce....	VI.....	Farmington (Me.) Normal....	1903
Blanche M. Brickett..	VI.....	Bridgewater Normal School..	1903
Nora P. Nason.....	V.....	Gorham (Me.) Normal School	1899
Alma J. Guptill.....	V.....	Girl's High School, Boston...	1884

WASHINGTON SCHOOL, COR. LEBANON AND LYNDE STREETS.

Eva R. Crane.....	Principal, IX..	Coburn Classical Institute....	1899
Harriett H. Dowe....	Prin. Ass't....	Mt. Holyoke College.....	1894
Helen B. Stevens....	Prin. Ass't....	Smith College.....	1902
Laura H. Horsman..	VIII	Provincial Normal Sch., N. B.	1903
Lavinia W. Smallwood	VII.....	Bridgewater Normal School..	1899
Etta J. Call.....	VI.....	Ellsworth (Kan.) Normal Inst.	1890
Genieve R. Barrows..	V & IV.....	Framingham Normal School..	1903
Mary L. Loring.....	III.....	Salem Normal School....	1897
Annie P. Long.....	II.....	Melrose High School.....	1894
Mary A. Bailey.....	I.....	Miss Wheelock's Kindergarten Training Class.....	1896
Bertha W. Leighton..	I.....	Miss Wheelock's Kindergarten Training Class.....	1899

LINCOLN SCHOOL, WYOMING AVENUE.

Augustus O. Burke..	Principal, IX..	Bridgewater Normal School..	1898
Edith S. Blake.....	Prin. Ass't....	Bates College.....	1903
Ethel E. Thomas....	VII	Bridgewater Normal School..	1901
Mary R. Clarke.....	VI.....	Franklin Academy.....	1894
Mary S. Haley.....	IV	Framingham Normal School..	1901
Harriet A. Saunders..	III.....	Malden High School.....	1898
Jeannette A. Doane..	II.....	Templeton High School.....	1895
Grace C. Albee.....	I.....	Wellesley College.....	1898
Grace A. Lynde.....	I.....	Miss Page's Kindergarten Training Class.....	1897

D. W. GOOCH SCHOOL, COR. FOSTER AND FLORENCE STREETS.

NAME.	GRADE.	WHEKE EDUCATED.	WHEN ELECTED.
Augustus O. Burke..	Principal, VIII	Bridgewater Normal School..	1898
Lydia Mendum.....	Prin. Ass't.....	Salem Normal....	1874
Harriet E. Benson...VII	Gorham (Me.) Normal School	1902
Lois M. Holmes.....VI	Melrose High School.....	1896
Alice H. Long.....V	Boston Normal School.....	1877
Minnie F. C. Snow....IV	Orono (Me.) High School....	1892
Grace M. Perkins....III	Salem Normal School.....	1903
Amelia F. Trowbridge II	Melrose High School.....	1889
A. Arline Merrill....I	Melrose High School.....	1894
Mabel Price.....I	Miss Symonds' Kindergarten Training Class.....	1897

HORACE MANN SCHOOL, COR. GROVE AND MYRTLE STREETS.

Alice M. Swett.....	Principal, VIII	Plymouth (N.H.) Normal Sch.	1882
Mary S. Wentworth..	Prin. Ass't....	Wakefield (N. H.) Academy..	1806
Aubigne Lermond...VII	.....	Bridgewater Normal School..	1902
A. Louise McCormick VI	.....	Wheaton Seminary.....	1891
Edith M. Maxwell...V	.....	Farmington (Me.) Normal Sch.	1902
Anna W. Atkins....IV	.....	Provincetown High School...1897	
Nellie C. Dempsey...III	.....	Salem Normal School.....	1891
Anastatia G. Riley...II	.....	Salem Normal School.....	1900
Annie G. Balch....I	.....	Wakefield High School.....	1900
Lillian M. Tufts....I	.....	Miss Symonds' Kindergarten Training Class.....	1901

MARY A. LIVERMORE SCHOOL, MAIN STREET.

Annie M. Washburn..	Principal VIII	Wellesley College.....	1900
Annie P. O'Hara....	Ass't. Prin....	Boston Normal School.....	1903
Bessie A. Conway...VII	.....	Partial Course Tufts College..	1903
Marion D. Dean.....VI	.....	Partial C. Boston University..	1902
Lucy E. Shute.....V	.....	Pinkerton Academy.....	1895

JOSEPH WARREN SCHOOL, WARREN STREET.

Alice J. Coffin.....	Principal IV...	Gorham (Me.) Normal School	1895
Mary E. Tupper.....III	.....	Framingham Normal School..	1892
Ruth M. Knowles...II	.....	Mt. Holyoke College.....	1894
Margaret E. Grady...I	.....	Salem Normal School.....	1896
G. Rose McConnell...I	.....	Miss Symonds' Kindergarten Training Class.....	1903

WINTHROP SCHOOL, COR. ELEVENTH AND FIRST STREETS.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
Edith S. Dermot.....	Prin. V & IV..	Framingham Normal School..	1896
Annie P. O'Hara.....	Prin. Ass't....	Boston Normal School.....	1903
Annie Dinnie.....	III.....	Quincy Training School.....	1900
Mabel G. Gilbride...II.....		Quincy Training School.....	1900
Mary E. Deans.....	I.....	Miss Wheelock's Kindergarten Training School.....	1902
Jennie S. Prescott...I.....		Miss Symonds' Kindergarten Training Class.....	1903

SEWALL SCHOOL, UPHAM STREET.

Martha A. Briggs....	Principal, IV..	Edw. Little High School....	1898
Lena D. Marshall....	III.....	Salem Normal School.....	1900
Mary A. Chisholm...II.....		Salem Normal School.....	1896
Frances B. Brown...I.....		Exeter, N. H. Training Sch...	1899
Emma C. French.....	I.....	Miss Symonds' Kindergarten Class.....	1902

WHITTIER SCHOOL, COR. FRANKLIN AND PRATT STREETS.

Archer C. Bowen....	Principal.....	Bridgewater Normal School..	1901
Josephine Burleigh..	Prin. Asst....	Farmington (Me) Normal Sch.	1903
Isabelle L. Atwood..	III.....	Robinson Seminary.....	1892
Gertrude B. Stewart..	II.....	Melrose High School.....	1894
Annie Jenness.....	I.....	Froebel Kindergarten Training School	1903
Marion P. Goodwin..	I.....	Miss Symonds' Kindergarten Training Class.....	1901

CONVERSE SCHOOL, FELLS.

Helen L. Patten.....	I, II, III.....	Salem Normal School.....	1903
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RIPLEY SCHOOL, SWAIN'S POND AVENUE.

Dora F. Whittredge..	I, II, III.....		1903
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GENERAL ASSISTANT.

Ella J. Spooner.....	Framingham Normal School..	1903
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SUPERVISORS.

Alvin C. Saunders ...	Music.....	1901
Willis S. Carter.....	Drawing	1891

JANITORS.

NAME.	SCHOOL.	RESIDENCE.
George A. Beckford	Ripley	Off Swain's Pond Ave....
Charles J. Critchett	Livermore & Sewall	80 Whitman Ave.....
James Fahey	Warren & Whittier	62 School St.....
George E. Fogg	High	102 E. Foster St.....
John Hitchins	Winthrop	Waitt St.....
Samuel Lear	Franklin	931 Main St.....
Archie McIlwraith	Lincoln	5 Allen Place.
Henry S. Payne	Washington	28 Albion St.....
Thomas Ray	Converse	52 Main St.....
John Thyng	Gooch & Mann	43 Winthrop St.....

ENGINEER IN HIGH SCHOOL.

Charles Brown	50 Porter St
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Report of Chief Engineer of Fire Department

FOR YEAR ENDING JANUARY 31, 1904.

MELROSE, March 31, 1904.

To His Honor the Mayor and Board of Aldermen :

GENTLEMEN : In accordance with the requirements of the ordinance I have the honor to submit the fourth annual report of the Melrose Fire Department.

FORCE OF THE DEPARTMENT

Consists of chief engineer, first and second assistants, seven permanent men, five in central station, one at Hose 3 at the Highlands, one at Hose 4 on the East Side, forty-three call men. Of the five permanent men at the central station, one man is a licensed engineer and one man an electrician.

CONDITION OF FIRE STATIONS.

Hose 3 house will need considerable repairs. Hose 4 house needs painting. The central station is in good repair. I would recommend a house for Hose 2 on the west side of the B. & M. R. R. at Wyoming.

APPARATUS OF THE DEPARTMENT

Consists of one Clapp & Jones steam fire engine, one hook and ladder truck, four hose wagons, one Beverly wagon for use on the fire alarm, one coal wagon, two pungs, two sleds fitted with reels and ten hand chemical extinguishers. The apparatus is in good repair except the wagons need varnishing and the engine painting.

HORSES.

There are ten horses in the department service; nine in first class condition and one will have to be sold and a new one bought.

HOSE.

Amount of hose in the department: 7,350 feet in good condition, 350 feet in poor condition. There has been sold to the public works department, 1,000 feet of damaged hose the past year for \$60.00.

FIRE ALARM.

The fire alarm system has given good service the past year. We have added to the system the past year five new fire alarm boxes and one special box in the Melrose hospital, three and one-half miles of new wire and rebuilt one and one-quarter miles of the line. One new Beverly wagon and harness and one extension ladder. About four miles of the line will have to be rebuilt this year. I would recommend the purchase of a motor and generator to be used in connection with the fire alarm. The way we get our power is very unsatisfactory.

There are forty-three fire alarm boxes as follows :

NUMBER AND LOCATION OF BOXES.

- 21 Swain's Pond Avenue, opposite Schoolhouse.
- 22 No School. Four Rounds.
- 23 Corner Lebanon and Forest Streets.
- 24 Corner Summer and Lynde Streets.
- 25 Main Street, opposite Goodyear Avenue.
- 26 Corner Beech Avenue and Irving Street.
- 27 Grove Street, opposite Meridian.
- 28 Corner Meridian and Park Streets.
- 29 Corner First and Sewall Streets.
- 31 Corner Pleasant and Francis Streets.
- 32 Corner Main Street and Wyoming Avenue.
- 33 Melrose Hospital (private).
- 34 Corner of Main and East Foster Streets.
- 35 Wyoming Avenue, near Trenton Street.
- 36 Corner Myrtle and Herbert Streets.
- 37 Corner Trenton and Foster Streets.
- 38 Corner Baxter and Tappan Streets.
- 39 Corner Trenton and Washington Streets.
- 41 Corner Grove and Lebanon Streets.

- 42 Sixth Street, near Grove Street.
- 43 Central Fire Station.
- 44 Corner Dell Avenue and East Foster Street.
- 45 Emerson Street, near Bellevue Avenue.
- 46 Junction Main and Lebanon Streets.
- 47 Corner Upham and Eleventh Streets.
- 48 Melrose Depot.
- 49 Corner Poplar and Emerson Streets.
- 51 Opposite Car Stables, Highlands.
- 52 Corner Sargent Street and Highland Avenue.
- 53 Main Street, opposite Boardman Avenue.
- 54 Highland Hose-house.
- 55 Corner Ashland and Melrose Streets.
- 56 Corner Franklin and Botolph Streets.
- 57 Corner Orris and Warren Streets.
- 58 Vinton Street, opposite Youle Street.
- 59 Woodland Avenue, near Botolph Street.
- 61 Porter Street, near Lincoln Street.
- 62 Corner Porter Street and Bellevue Avenue.
- 63 Howard Street, near Bennett's Ice House.
- 67 Corner East Foster and Gooch Streets.
- 68 Corner Waverly Avenue and Third Street.
- 71 Sewall Woods Road.
- 72 Richardson Road, opposite Ashland Street.

One Blow, Test. Two Blows, All Out. Ten Blows, Call for assistance out of town. Fifteen Blows, Military Call.

I would recommend the purchase of a whistle for the fire alarm. It is very important the men hear the alarm. There are so many bells in the city it is impossible at a distance to know which is the fire bell.

FIRES.

There have been one hundred and three alarms of fire for year ending January 31, 1904; fifty-four bell and forty-nine still alarms. The usual prompt service of the department has given the best of satisfaction.

Value of buildings and contents endangered	
by fire	\$205,562.00
Damage to buildings and contents endangered	
by fire	51,227.00

Insurance on buildings and contents endangered

by fire	145,690.00
Insurance paid	39,816.42

VALUE OF FIRE DEPARTMENT PROPERTY.

Fire alarm system	\$16,750.00
Personal property	12,356.50

Total value \$19,106.50

Respectfully submitted,

JOSEPH EDWARDS,

Chief Engineer.

LIST OF MEMBERS OF THE MELROSE FIRE DEPARTMENT.

ENGINE COMPANY NO. 1, Central Station.

Name	Occupation	Age	Residence	Admitted
Capt. Chas. F. Woodward..	Surveyor.....	34	39 Upham.....	Sept. 2, 1890
Lieut. Walter M. Barrett...	Painter.....	28	290 W. Emerson.	April 6, 1897
Thomas B. Stantial.....	Carpenter.....	68	15 Winthrop....	Dec. 7, 1875
Arthur L. Upham.....	Carpenter.....	49	253 First.	Aug. 1, 1883
David R. Woodward.....	Carpenter.....	36	39 Upham.....	April 2, 1893
George A. Dean.....	Clerk.....	28	73 Essex.....	Dec. 5, 1899
William B. Clark.....	Cutter.....	30	Argyle.....	May 1, 1902
Ernest Johnston.....	Clerk.....	23	166 Green.....	May 1, 1903
Jos. W. Harris.....	Base Ball.....	21	39 Willow.....	Aug. 1, 1903
Dean T. Stockwell.....	Permanent man.	42	11 Upham.....	Nov. 3, 1891
Chas. W. Edwards.....	Permanent man.	33	612 Main.....	April 1, 1892
Wm. H. Riley, Jr.....	Permanent man.	30	39 Essex.....	Feb. 2, 1897

HOSE COMPANY, NO. 2, Central Station.

Capt. Robert Gibbons.....	Carpenter.....	46	121 Trenton.....	Mar. 3, 1874
Lieut. Chas. F. Doherty....	Barber.....	36	22 Lynde.....	Aug. 7, 1894
Joseph R. Gibbons.....	Building mover.	40	124 Trenton.....	May 2, 1882
H. W. Simpson.....	Bootmaker.....	35	445 Main.....	July 3, 1899

FIRE REPORT.

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Frank E. Newell.....	Coal and Wood.	43 457 Pleasant.....	Dec. 5, 1899
Louis Manuel.....	Clerk	23 165 Berwick.....	Aug. 6, 1903
George M. Bayne.....	Clerk.....	27 Grove.....	May 1, 1898

HOSE COMPANY NO. 3, Franklin Street.

Capt. Frank H. Cheever....	Clerk	30 894 Main.....	Feb. 5, 1895
Liet. Wm. R. Holly.....	Carpenter	36 24 Sargent.....	Jan. 3, 1899
Leverett D. Newhall.....	Permanent man.	48 23 Ellsworth Ave.	Jan. 9, 1885
George E. Burnham.....	Carpenter	38 1 Orient Park..	July 5, 1899
Frank A. Howe.....	Laundry	46 Winter.....	Feb. 1, 1899
J. P. Hatch.....	Painter.....	41 11 Albion	
George L. Stewart.....	Carpenter	26 36 Albion	Aug. 1, 1901
Edgar W. Mansfield.....	Clerk.....	25 92 Ashland.....	Aug. 1, 1899
Oscar H. Low	Clerk.....	26 112 Ashland....	April 3, 1900

HOSE COMPANY NO. 4, East Foster Street.

Capt. Charles E. McKinnon.	Clerk	39 159 Laurel.....	May 1, 1890
Lieut. Edward W. Russell..	Engineer.....	31 20 Russell.....	April 1, 1894
Fred S. Boardman.....	Baker.....	27 106 Grove.....	July 1, 1900
Percy E. Cates.....	Carpenter	25 372 Grove.....	Nov. 1, 1902
J. T. Foster	Grocer	22 Hose 4 house.	Apr. 1, 1903
Willis C. Russell.....	Clerk	24 20 Russell.....	May 1, 1902
Frank Gibbons.....	Con. St. R. R..	40 313 E. Foster....	Aug. 1, 1903
Frank C. Newman.....	Permanent man.	37 284 E. Foster....	May 1, 1898

HOOK AND LADDER COMPANY NO. 1, Central Station.

Capt. Harry R. Norton.....	Clerk.....	44 27 E. Emerson..	Mar. 1, 1895
Lieut. Wm. A. Lynde.....	Farmer.....	46 529 Lebanon....	Mar. 7, 1876
Curtis S. Gordon.....	.....	65 21 Winthrop...	Aug. 31, 1872
Wm. H. Stewart.....	Carpenter.....	53 36 Albion	June 6, 1873
Edward H. Carley.....	Carpenter	29 55 Dell Ave.....	Jan. 6, 1899
Wm. J. Warren	Painter.....	37 187 Grove.....	July 1, 1900
Frank I. Storey.....	Painter.....	38 40 Linwood Ave.	Jan. 1, 1900
W. C. Sargent.....	B't'n C'pl'g Co.	45 362 Washington..	Dec. 1, 1901
Charles A. Page.....	Undertaker's		
	assistant....	37 41 Winthrop	Jan. 1, 1902
Wm. Fahey.....	Cutter.....	22 134 Lynde.....	Aug. 7, 1903
Robert H. Whidden.....	Permanent man.	36 26 Winthrop....	Sept. 5, 1890

STATEMENT OF FIRES AND ALARMS FOR THE YEAR ENDING
JANUARY 30, 1904.

February 1, 1903; still alarm; Pleasant street; owner, Boston Rubber Shoe Co.; park; grass.

February 4; box 43; Main street; owner, Charles C. Swett; occupant, Walter M. Burnap; store; value of building and contents, \$43,500; damage, \$2,989.72; insurance \$13,000; insurance paid, \$2,588.72.

February 7; still alarm; Foster street; owner, H. A. Leonard; occupant, Charles Cullis; hotel; value of building and contents, \$8,000; damage, \$260; insurance, \$5,000; insurance paid, \$187.65

February 9; still alarm; Washington street; owner and occupant, C. P. Toomey; dwelling; value of building and contents, \$4,300; damage, \$1,972; insurance, \$3,500; insurance paid, \$1,755.27.

February 17; box 43; Main street; owner, Melrose Athletic Club; occupants, M. A. C., A. S. Sim; club building; value of building and contents, \$22,700; damage, \$7,560; insurance, \$20,250; insurance paid, \$5,942.90.

February 20; box 42; Cumner avenue; owner and occupant, George Brown; dwelling; value of building and contents, \$3,500; damage, \$675; insurance, \$3,000; insurance paid, \$530.69.

February 25; box 48; Tremont street; owner, S. E. Benson; occupants, Joseph Dowd, James Connelly; dwelling; value of building and contents, \$2,800; damage, \$100; insurance, \$2,000; insurance paid, \$100.

February 25; box 37; Foster street; owner, B. & M. R. R. occupant, gateman; gatehouse; value of building and contents, \$85.00; damage, \$5.00; no insurance.

March 1; box 43; Upham street; owner, Charles Ransdill occupant, Charles Lum; shop; value of building and contents, \$600; damage, \$644; insurance, \$600; insurance paid, \$604.

March 1; box 54; Green street; owner, H. C. Wiley; occupant, Robert Buckler; shop; value of building and contents, \$6,400; damage, \$327; insurance, \$4,400; insurance paid, \$327.

March 3; box 51; Franklin street; owner, city of Melrose; occupant, school; value of building and contents, \$7,500; damage, \$10.00; insurance, \$7,750; insurance paid, \$10.00.

March 7; still alarm; Sewall Woods Park; owner, city.

March 14; still alarm; Hamilton road; woods; owner, city.

March 15; box 46; Green street; owner and occupant, Littlefield; dwelling; value of building and contents, \$6,500; damage, \$172.50; insurance, \$3,500; insurance paid, \$147.

March 20; box 49; Holland road; Bartlett estate; woods fire.

March 21; box 49; Cedar Park; owner and occupant, Charles H. Gilman; dwelling; no damage.

March 27; still alarm; Reading Hill avenue; woods fire.

March 27; box 57; Walton park; owner, Dexter Bryant; woods fire.

April 1; still alarm; Reading Hill avenue; woods fire.

April 2; box 28; Spear street; owner, Mrs. George Wiles; occupant, E. S. Tucker; dwelling; value of building and contents, \$1,300; damage, \$335; insurance \$1,000; insurance paid, \$285.

April 6; box 52; Highland avenue; woods fire.

April 10; box 61; Porter street; owner, N. E. Hemmenway; occupant, John Daud; dwelling; value of building and contents, \$800; damage, \$400; insurance, \$400; insurance paid, \$400.

April 11; still alarm; Maple road; owner, C. E. Damon; woods fire.

April 11; still alarm; Florence avenue; woods fire.

April 15; still alarm; Chestnut street; Leland estate; occupant, J. W. Word; dwelling; no damage.

April 21; still alarm; Goss avenue; woods fire.

April 23; box 49; Emerson street; owner S. M. Bartlett; woods fire.

April 24; box 43; Main street; owners and occupants, M. E. Church; value of building and contents, \$13,577; damage, \$10,773; insurance, \$12,990; insurance paid, \$10,773.

April 25; box 46; Green street; false alarm.

April 25; box 53; Spring street; woods fire.

April 29; still alarm; Highland avenue; woods fire.

April 30; box 42; Hunnewell avenue; owner and occupant, A. H. Polk; dwelling; value of building and contents, \$850; damage, \$298.50; insurance, \$700; insurance paid, \$297.

May 1; still alarm; Renwick road; woods fire.

May 1; still alarm; Renwick road; woods fire.

May 4; box 45; Upham street; owner and occupant, Lewis A. Dow; dwelling; value of building and contents, \$5,800; damage, \$3,700; insurance, \$3,500; insurance paid, \$2,042.

May 9; box 55; off Ashland street; city park; woods fire.

May 10; still alarm; Sylvan street; woods fire.

May 10; box 51; Franklin street; Woodman estate; occupant, F. H. Spear; store; no damage.

May 11; box 59; Woodland avenue; woods fire.

May 11; still alarm; Goss avenue; woods fire.

May 12; box 42; Hunnewell avenue; owner, Mrs. Pat Hallahan; occupant, James Hallahan; stable; value of building and contents, \$300; damage, \$300; insurance, \$200; insurance paid, \$200.

May 13; still alarm; Lynde avenue; woods fire.

May 13; box 43; Foster street; owner, Cornelius Mahoney; vacant dwelling; value of building and contents, \$1,400; damage, \$775; insurance, \$1,200; insurance paid, \$775.

May 14; box 44; Dell avenue; owner, H. A. Leonard; occupants, John Holden, H. R. Hoyt; value of building and contents, \$2,500; damage, \$350; insurance, \$2,500; insurance paid, \$350.

May 16; still alarm; off Perkins street; owner, George Proal; vacant hen house; value of building and contents \$150; damage, \$10; no insurance.

May 16; still alarm; Sewall Woods park; woods fire.

May 17; still alarm; off Swain's Pond avenue; woods fire.

May 17; still alarm; Heywood avenue; woods fire.

May 21; box 35; off Wyoming avenue; Lynde estate; woods fire.

May 21; still alarm; off Wyoming avenue; Lynde estate; woods fire.

May 22; box 35; off Wyoming avenue; Lynde estate; woods fire.

May 24; still alarm; Staples street; woods fire.

May 24; still alarm; Pine Banks; owner, E. S. Converse; woods fire.

May 24; still alarm; Staples street; woods fire.

May 26; still alarm; Otis street; owner, Charles Hill; vacant dwelling; value of building and contents, \$2,500; damage, \$55; insurance, \$2,000; insurance paid, \$55.

May 27; box 27; Rodgers street; woods fire.

May 28; box 51; Green street; false alarm.

May 31; still alarm; owner and occupant, B. & M. R. R.

June 1; still alarm; Wyoming park; Alvin Lynde estate; woods fire.

June 4; box 31; Pleasant street; false alarm.

June 17; box 39; Mountain avenue; owner, Mrs. J. G. Low; vacant dwelling; no value.

June 20; box 55; Melrose and Ashland street; false alarm.

June 26; box 39; Trenton street; false alarm.

June 30; box 46; Crystal street; owner, Thos. Simonds; occupant, Arthur Hocking; shop; value of building and contents, \$100; damage, \$40; insurance, \$500; insurance paid, \$40.

July 4; still alarm; Sixth street; owner and occupant, Henry Abbott; dwelling; no damage.

July 5; call for help from Stoneham.

July 5; still alarm; Tremont street; owner, John Deering; occupant, Deering Lumber Co.

July 10; box 43; Stevens place; owner and occupant, Mrs. Jessie Loring; dwelling; value of building and contents, \$2,400; damage, \$700; insurance, \$2,200; insurance paid, \$579.75.

July 13; still alarm; Otis street; owner, W. E. Mellen; dwelling; no damage.

July 15; box 48; Tremont street; owner, Mrs. Flannery; vacant dwelling; value of building and contents, \$300; damage, \$422.50; insurance, \$1,200; insurance paid, \$422.50.

July 25; box 35; Florence street; owner, Leon Kimball; occupant, C. W. Noyse; dwelling; value of building and contents, \$6,000; damage, \$136.69; insurance, \$6,000; insurance paid, \$136.69.

July 30; box 43; Fields court; owner, F. C. Fletcher; occupant, B. McDonough; dwelling; value of building and con-

tents, \$3,000; damage, \$50; insurance, \$2,500; insurance paid, \$50.

August 4; box 41; false alarm.

September 13; box 24; Linwood avenue; owner and occupant, Jeremiah Lucey; dwelling; value of building and contents, \$2,300; damage, \$225; insurance, \$2,200; insurance paid, \$225.

September 8; box 44; Dell avenue; owner and occupant, Mrs. Philpot; dwelling; value of building and contents, \$2,200; damage, \$275; insurance, \$2,000; insurance paid, \$275.

October 25; box 32; Mt. Vernon street; owner, Mrs. S. S. Houghton; occupant, S. S. Colby; dwelling and stable; value of buildings and contents, \$18,700; damage, \$15,473.70; insurance, \$8,600; insurance paid, \$8,550.

October 26; still alarm; Mt. Vernon street; owner S. S. Houghton; occupant, S. S. Colby; dwelling and stable.

Oct. 28; still alarm; owner, B. & M. R. R.; railroad ties.

October 30; still alarm; Mt. Vernon street; owner, Mrs. S. S. Houghton; occupant, S. S. Colby; dwelling and stable.

October 31; off Sargent street; woods fire.

October 31; still alarm; off Henry avenue; woods fire.

October 31; box 61; off Burrell street; woods fire.

October 31; still alarm; Main street; owner and occupant, W. J. McCoubry; shop; value of building and contents, \$100; damage, \$10; no insurance.

November 1; still alarm; Howard street; woods fire.

November 3; still alarm; off Swain's Pond avenue; woods fire.

November 10; still alarm; Crystal street; owner, city; grass fire.

November 12; box 26; Beech avenue; false alarm.

November 14; box 28; Park street; owner and occupant, T. Wickford; dwelling; value of building and contents, \$1,500; damage, \$15; insurance, \$1,500; insurance paid, \$15.

November 15; still alarm; Alpine street; woods fire.

November 18; still alarm; Eastman place; owner, M. F. Eastman; vacant dwelling; no damage.

November 25; box 61; Howard street; owner and occupant, M. A. Green; stable; value of building and contents,

\$1,200; damage, \$1,100; insurance, \$1,100; insurance paid; \$1,100.

November 30; box 53; Sargent street; owner, Angus McDonald; occupant, W. H. Allen; dwelling; value of building and contents, \$5,000; damage, \$172; insurance, \$2,500; insurance paid, \$147.

December 2; box 49; West Emerson street; owner and occupant, W. M. Barrett; dwelling; value of building and contents, \$4,500; damage, \$50; insurance, \$2,500; insurance paid, \$50.

December 2; still alarm; Main street; owner, Masons; Masonic building; value of building and contents, \$15,000; damage, \$75; insurance, \$20,000; insurance paid, \$75.

December 19; still alarm; rear Winthrop street; owner, W. B. Ellis; brush fire.

December 19; still alarm; East street; grass fire.

December 19; box 37; Foster street; owner and occupant, L. F. Hinckley; dwelling; value of building and contents, \$4,000; damage, \$300; insurance, \$4,300; insurance paid, \$300.

December 19; still alarm; Waverly avenue; grass fire.

December 30; box 42; Essex street; owner, Carrie Eastman; occupant, W. D. Langiell; store; value of building and contents, \$1,500; damage, \$210; insurance, \$1,400; insurance paid, \$210.

January 1; box 34; Main street; owner, Oliver Maxwell; occupant, Nugent & Co.; store; value of building and contents, \$1,400; damage, \$113.50; insurance, \$2,000; insurance paid, \$113.50.

January 3; box 38; Baxter street; owner and occupant, Harry Gittis; dwelling; value of building and contents, \$2,300; damage, \$156.75; insurance, \$1,300; insurance paid, \$156.75.

January 4; box 72; Richardson road; owner, Thos. Maxwell; vacant dwelling; value of building and contents, \$7,000; damage, \$1,200; insurance, \$5,000; insurance paid, \$1,200.

January 4; box 43; Upham street; owner, city; school-house; needless alarm.

January 14; box 37; Trenton street; false alarm.

January 30; box 58; Vinton street; owner and occupant, David Conway; value of building and contents, \$800; damage, \$80; insurance, \$1,000; insurance paid, \$30.

January 30; box 61; Burrell street; owner, Andover Savings Bank; occupant, R. Dexter; value of building and contents, \$3,500; damage, \$2,825; insurance, \$3,200; insurance paid, \$2,825.

Report of the Chief of Police.

MELROSE, February 1st, 1904.

To the Honorable the Mayor of the City of Melrose: In accordance with the requirements of the city ordinance, I have the honor to submit my fourth annual report of the doings of the Police Department for the year ending January 31, 1904.

FINANCIAL STANDING.

Appropriations for the year 1903.

Chief and regular officers	\$11,037 50
Special officers and vacations	735 00
Contingent and care of teams	527 50
	<hr/>
	\$12,300 00
Expended for salaries and contingent expenses	12,299 35
Balance in contingent	65
Received from Court fines and turned over to the city Treasurer	513 14
Offences for which cases have been brought into Court.	
Assault and battery	11
Arson	2
Breaking and entering and larceny	6
Bastardy	2

Being present where gaming implements were found	3
Concealing mortgaged property	1
City ordinances	3
Drunkenness	77
Disorderly house	2
Disorderly conduct and lewdness	2
Destroying city property	1
Default warrants	3
Disturbing the peace	12
Demented	2
Exposing person	1
Idle and disorderly	2
Keeping and exposing	1
Larceny	12
Malicious mischief	1
Neglected children	2
Non support	3
Obtaining money under false pretense	1
Operating boiler without license	1
Peddling without license	3
Search warrants	12
Stubborn child	1
Threats	1
Uttering and forgery	2
Vagrants	6

MISCELLANEOUS REPORT.

Accidents reported	10
Arrested for out of town officers	2
Air lights reported out	50
Small " " "	285
Notices delivered, aldermanic, etc.	1509
Board of Health notices and cards	76
Summons delivered	23
Defects in street reported	21
Defects in sidewalk reported	12
Dogs killed	17
Electric wires reported down	20

Fire alarms given	13
Fires put out without an alarm	4
Lanterns placed in dangerous places	16
Gas leaks reported	7
Water leaks reported	20
Bicycles returned to owners	4
Doors found unlocked and secured	106
Persons assisted home	13
Cases investigated	83
Dead body found	1
• Wires reported burning trees	17
Fires attended	59
Officers attending fires	137
Disturbances suppressed	26
Runaway teams stopped	6
Lost children taken home	7
Obstructions removed	4
Stray animals returned to owners	5
Stray teams put up	2
Ambulance calls in the city	38
Ambulance calls for out of town	18
Wagon calls	72
Conveyed to insane hospitals	16
Conveyed to dipsomaniac hospital	1
Conveyed to Malden hospital	1
Conveyed to undertaker's room	2
Conveyed to sanitarium	2
Conveyed to home	1
Value of property found and returned to owner,	\$540.00

CONCLUSION.

In closing, I wish to thank your Honor for the many courtesies extended and assistance given during the past year. Also to the regular and special officers for their faithful services and good work performed. Also to the officials and attendants of the First District court.

Respectfully submitted,
 FRANK M. McLAUGHLIN,
 Chief of Police.

AMBULANCE REPORT.

MELROSE, Jan. 31, 1904.

As some of our citizens may not understand the way the City Ambulance is to be used, the following report may be of some use to anybody requiring its service.

On November 16, 1903, the following ordinance was passed by the Board of Aldermen and approved by His Honor the Mayor:

"The City Ambulance shall be in charge of the Police Department. The Chief of Police shall direct and control the transportation of all injured persons who require immediate care. It shall be for the general use of any sick or disabled resident of Melrose, and at the disposal of the Melrose Hospital, Board of Health and the Charity Department. The fees for the use of the ambulance shall be as follows: Within the city limits, no charge; to any place without the city limits, and within five miles of City Hall, \$5.00; and one dollar additional for each additional mile. Said fees shall be paid to the city treasurer and credited to the City Ambulance Fund."

During the past year there has been 38 calls inside the city limits and 18 out of the city limits for which the sum of one hundred and eleven dollars (\$111) has been collected, and fifty-six dollars has been paid the Melrose club stable for horse hire. Two dollars and forty-five cents expense, leaving a balance of fifty-two dollars and fifty-five cents which has been turned over to the City Treasurer.

Respectfully submitted,

FRANK M. McLAUGHLIN,
Chief of Police.

ASSESSORS' REPORT.

February 1, 1904.

Hon. Sidney H. Buttrick, Mayor of the City of Melrose:

DEAR SIR: The Board of Assessors herewith submit their report for the year ending January 31, 1904.

VALUATION OF THE CITY.

	Buildings.	Land.	Total.
Real Estate,	\$7,865,250 00	\$5,915,375 00	\$13,780,625 00
Personal Estate			1,332,325 00
Resident Bank Stock			64,680 00
Total Assessed Valuation			\$15,177,630 00

The above valuation of Real and Personal Estate, is divided as follows:

	Buildings.	Land.	Total R. E.	Personal Estate.
Ward 1,	\$1,142,950	\$763,525	\$1,906,475	\$117,700
" 2,	1,245,000	881,875	2,126,875	117,800
" 3,	1,075,575	833,300	1,908,875	222,950
" 4,	1,061,275	1,010,375	2,071,650	368,500
" 5,	1,283,550	753,175	2,036,725	320,825
" 6,	1,225,250	1,053,900	2,279,150	139,350
" 7,	831,650	619,225	1,450,875	45,200
	\$7,865,250	\$5,915,375	\$13,780,625	\$1,332,325

APPROPRIATIONS.

State Tax	\$10,625 00
County Tax	13,917 89
Metropolitan Sewer Tax	10,808 84
Metropolitan Park Tax	5,169 59
City Tax	237,087 74
Overlay	3,692 28
	\$281,301 34

Rate of Taxation, \$18.00 per \$1,000.00

Assessed on Real Estate	\$248,051 25
Assessed on Personal Estate	23,981 85
Assessed on Resident Bank Stock	1,164 24
Assessed on 4,052 polls at \$2.00 each	8,104 00
	<hr/>
	\$281,301 34
Number of resident individuals, firms, etc., assessed on property	1,927
Number of non-resident individuals, firms, etc., assessed on property	777
Number of persons assessed for poll tax only	3,137
" " horses	535
" " cows	112
" " swine	400

VALUE OF PROPERTY EXEMPTED FROM TAXATION.

Houses of religious worship	\$290,000 00
Charitable and benevolent institutions	47,025 00
	<hr/>
	\$337,025 00

Under authority of Chapter 578, Section 7, of the Acts of 1898, an excise tax was assessed to the Boston & Northern Street Railway Co. for 9.155 miles of track operated in the City, amounting to \$1,622.64.

Yours respectfully,

FRANK R. UPHAM,
L. F. HINCKLEY,
WILLIAM MORSS,

Assessors.

COLLECTOR'S REPORT.

MELROSE, January 1, 1904.

To the Honorable Board of Aldermen, City of Melrose, Mass.

GENTLEMEN: I herewith submit the fourth annual January report.

TAX 1903.

Warrant	\$281,301 34
Additional	618 55
Interest	92 26
	<hr/>
	\$282,012 15
Abatements	2,864 88
	<hr/>
	\$279,147 27
Paid Treasurer	145,004 57
	<hr/>
Uncollected	\$134,142 70

TAX 1902.

Warrant	\$272,148 26
Additional	1,221 59
Interest	3,467 70
	<hr/>
	\$276,837 55
Abatements	6,751 22
	<hr/>
	\$270,086 33
Paid Treasurer	247,204 05
	<hr/>
Uncollected	22,882 28

TAX 1901.

Warrant	\$248,652 39
Additional	1,526 03
Interest	4,627 44
	<hr/>
	254,805 86
Abatements	6,525 64
	<hr/>
	\$248,280 22
Paid Treasurer	245,794 04
	<hr/>
Uncollected	2,486 18

TAX 1900.

Warrant	\$237,310 57
Additional	2,937 20
Interest	4,391 23
	<hr/>
	\$244,639 00
Abatements	5,653 29
	<hr/>
	\$238,985 71
Paid Treasurer	237,279 94
	<hr/>
Uncollected	\$1,705 77

TAX 1899.

Warrant	\$222,702 40
Additional	1,640 76
Interest	4,314 37
	<hr/>
	\$228,657 53
Abatements	5,812 81
	<hr/>
	\$222,844 72
Paid Treasurer	222,844 72

SEWER ASSESSMENTS.

Amount collected	.	.	.	.	\$127,658 09
Paid Treasurer	.	.	.	.	127,637 97
Balance	.	.	.	.	20 12
				<u> </u>	\$127,658 09

NON-RESIDENT BANK TAX 1903.

Collected	.	.	.	.	\$815 76
Paid Treasurer	.	.	.	.	815 76
				<u> </u>	

WATER RATES 1901.

Collected	.	.	.	.	\$48,191 53
Paid Treasurer	.	.	.	.	\$47,792 22
Refunds	.	.	.	.	399 31
				<u> </u>	\$48,191 53

WATER RATES 1902.

Collected	.	.	.	.	\$50,959 15
Paid Treasurer	.	.	.	.	\$50,352 21
Refunds	.	.	.	.	606 94
				<u> </u>	\$50,959 15

WATER RATES 1903.

Collected	.	.	.	.	\$51,318 28
Paid Treasurer	.	.	.	.	\$50,933 91
Refunds	.	.	.	.	358 44
				<u> </u>	\$51,292 35
Balance	.	.	.	.	25 93
				<u> </u>	\$51,318 28

WATER RATES 1904.

Collected	.	.	.	.	\$99 50
Paid Treasurer	.	.	.	.	\$74 00
Balance	.	.	.	.	25 50
				<u> </u>	\$99 50

COLLECTOR'S REPORT.

225

COSTS FEES.

Collected		\$724 35
Paid Treasurer	\$719 45	
Balance	4 90	
	<hr/>	\$724 35

EXCISE TAX 1903.

Collected, B. & N. S. R. R.	\$1,622 64
Paid Treasurer	<u>1,622 64</u>

STREET WATERING 1901.

Collected	\$3,884 31
Paid Treasurer	<u>3,884 31</u>

STREET WATERING 1902.

Collected	\$3,634 61
Paid Treasurer	\$3,605 81
Balance	<u>28 80</u>
	\$3,634 61

STREET WATERING 1903.

Collected	\$2,141 67
Paid Treasurer	\$1,985 16
Balance	<u>156 51</u>
	\$2,141 67

SIDEWALK ASSESSMENTS 1901.

Collected	\$1,352 27
Paid Treasurer	<u>1,352 27</u>

SIDEWALK ASSESSMENTS 1903.

Collected	\$93 89
Paid Treasurer	93 89

REDEMPTION OF TAKINGS.

1898.

Redeemed	\$2,554 74
Paid Treasurer	<u>2,554 74</u>

1899.

Redeemed	\$2,909 13
Paid Treasurer	<u>2,909 13</u>

1900.

Redeemed	\$4,043 50
Paid Treasurer	<u>4,043 50</u>

1901.

Redeemed	\$2,075 11
Paid Treasurer	<u>2,075 11</u>

Respectfully submitted,

JAMES W. MURRAY,
City Collector.

Report of the Overseers of the Poor.

MELROSE, January 31, 1904.

*To His Honor the Mayor and the Honorable Board of Aldermen,
City of Melrose:*

GENTLEMEN: The Board of Overseers of the Poor respectfully submit their fourth annual report, it being for the year ending January 31, 1904. The number of calls on our department has been less than last year, owing, we presume, to the scarcity and high price of fuel in 1902. Work has been quite plenty this winter, caused by the unusually large fall of snow, but the extreme cold has made the demand upon our department quite heavy.

The large item of expense in our department that caused the deficiency for 1903 was \$4,151.03 for the care of the insane, an increase over 1902 expenditures of \$1,515.72. This unfortunate class of people is one over which this board has no control as they are committed by the courts, and if unable to defray the expense themselves and no relatives can be found who are legally responsible, the city is obliged to pay if the settlement is in Melrose.

The institution located on the Pratt Farm remains under the charge of Mrs. C. L. Chandler as matron and it is a pleasure to the members of this board to hear on every side from those who have visited the Farm the splendid condition in which they find the house, and also from the inmates themselves of the motherly care they receive from the matron.

The Pratt Farm has been in charge of Mr. H. W. Chandler for the past year and the receipts from the sale of produce exceed those of the year 1902.

It is the earnest request of this board that the Honorable Board of Aldermen seriously consider the appointment of a city physician as suggested by His Honor the Mayor in his

inaugural. We are fully convinced that the appointment of a city physician would be a great help to our department and the people aided by us, as well as a saving of several hundred dollars to the city.

For detailed statement of number aided, where settled, cost of maintenance at Pratt Farm, receipts and expenditures, we refer you to the annexed tables.

ELEANOR BROWN TOOTHAKER FUND.

Balance, January 31, 1903	\$1,327 10	
Interest to January 31, 1904	47 23	
	<hr/>	\$1,374 33
Expended for the year 1903		146 33
		<hr/>
Balance February 1, 1904		\$1,228 00

Respectfully submitted,

THOMAS M. GOGIN,
MATILDA E. STANTIAL,
WILLIAM S. SOULE,
Committee.

PRATT FARM.

Total number from Feb. 1, 1903 to Jan. 31, 1904	16
Number of deaths during the year	2
Number of persons at the farm Jan. 31, 1904	7
Average number during the year	10

OUT DOOR RELIEF.

Individuals aided	300
Having settlement in Melrose	175
" " " other cities and towns	68
Paid for by state	57
Families aided	89
Having settlement in Melrose	54
" " " other cities and towns	17
Paid for by the state	18

Individuals aided for the first time	20
Having settlement in Melrose	12
" " " other cities and towns	4
Paid for by the state	4

	MALE	FEMALE	ADULTS	MINORS		TOTAL
				Under 16 yrs.	Over 16 yrs.	
City of Melrose	72	103	69	97	9	175
Cities and towns	29	39	23	41	4	68
State	26	31	28	26	3	57
	—	—	—	—	—	—
Total	127	173	120	164	16	300
Total number of families aided during the year						89
" " " " receiving only medical aid						14
" " " " aid for burial only						4

FINANCIAL STATEMENT.

Receipts:

Appropriation	\$9,000 00
Commonwealth of Massachusetts	\$751 17
Cities and towns	1,312 41
Farm (sale of produce)	955 44
Individuals for insane support	706 57
Soldiers' relief	146 32
	—
	\$3,871 91

Deficiency: Recommended by the Mayor and
appropriated by the Board of Aldermen.

Deficiency of 1902 taken from 1903 appropriation	\$683 58
Deficiency of 1903	852 00
	—
	1,535 58
	—
	\$14,407 49

Expenditures:

Outside relief	\$2,185 03	
Fuel	427 76	
Rent	881 50	
Board in private families	323 90	
Shoes and rubbers	252 05	
Medicine	188 77	
Medical aid	467 00	
Burial	108 00	
Cash	126 00	
Care of insane	4,151 03	
Care in other institutions	250 02	
Cities and towns	662 91	
Services and incidentals	341 51	
Supplies	3,578 67	
Permanent improvement	404 39	
	<hr/>	\$14,407 49

PRATT FARM.

FINANCIAL STATEMENT.

Receipts:

Permanent repairs	\$404 39	
Sale of produce	955 44	
Wood delivered poor	449 40	
Milk " " 640 qts. at .07	44 80	
Wood delivered soldiers' relief	5 40	
	<hr/>	\$1,959 43
Net expense of Pratt Farm	1,968 00	
	<hr/>	\$3,927 43

Expenditures:

HOUSE EXPENSE.

Food	\$554 60
Fuel (\$120.04 spent for fuel delivered to poor)	321 29
Telephone	72 29
Supplies	214 48
Labor	192 55
Medicine	116 06
Medical aid	98 50
Repairs	38 08
Sundries	141 84
Salary of matron	300 00
Electric light	92 12

FARM EXPENSE.

Labor	544 37
Supplies	836 86
Permanent repairs	404 39

 3,927 43

Average cost of support of each per week, \$3.77.

HOUSE EXPENSE.													
	FEB	MAR	APR L	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	JAN.	TOTAL
Food	\$51.29	\$35.53	\$80.92	\$20.89	\$70.70	\$18.70	\$43.20	\$47.63	\$54.37	.....	\$76.15	\$55.22	\$554.60
Fuel	68.35	15.25	20.25	.....	7.00	.....	7.00	70.00	.....	.....	73.50	59.94	321.29
Telephone	7.22	14.94	4.12	.92	6.93	.50	1.66	.....	12.66	\$6.16	.....	17.18	72.29
Supplies	13.97	7.50	39.91	20.42	24.59	9.52	8.46	2.80	4.18	2.06	78.08	2.99	214.48
Labor	16.00	18.00	17.16	18.00	17.15	18.00	18.00	17.14	18.00	17.10	18.00	18.00	210.55
Medicine	15.54	.....	2.20	31.12	4.00	20.44	5.95	.....	21.71	.....	10.10	.....	111.06
Medical Aid	29.25	8.00	16.00	2.00	29.25	.....	.....	.....	10.00	.....	4.00	.....	98.50
Repairs .....	.....	.....	23.63	3.45	.....	.....	3.00	8.00	.....	.....	.....	.....	38.08
Sundries	59.40	9.01	16.23	3.83	.....	17.00	8.88	9.34	7.05	3.95	5.15	2.00	141.84
Salary of Matron	25.00	25.00	.....	50.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	300.00
Burial .....	.....	.....	.....	.....	.....	.....	.....	5.00	18.00	.....	.....	.....	23.00
Electric	13.01	8.42	.....	6.58	3.98	4.16	3.69	4.05	6.54	18.27	11.31	12.11	92.12
Total	299.03	141.65	220.42	157.21	188.60	113.32	124.84	183.96	159.51	72.54	301.29	192.44	2,154.81
FARM EXPENSE.													
Labor	\$66.00	\$12.50	\$62.50	\$38.50	\$12.50	55.25	\$30.50	\$52.50	\$122.62	\$30.50	\$30.50	\$30.50	\$544.37
Supplies	64.38	109.94	51.46	100.87	46.18	4.24	102.59	95.06	124.75	.....	127.19	10.20	836.86
Permanent Improvement .....	.....	.....	.....	.....	.....	.....	.....	404.39	.....	.....	.....	.....	404.39
Total	429.41	264.09	334.38	296.58	247.28	172.81	257.93	740.91	424.88	103.04	458.98	233.14	3,963.43

OUTSIDE RELIEF.

	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOV.	DECEMBER	JANUARY	TOTALS
Food	\$211.00	\$140.50	\$199.38	\$126.99	\$192.50	\$92.08	\$138.20	\$221.29	\$128.20	.....	\$537.99	\$196.00	\$2,185.03
Fuel	50.31	40.75	45.25	1.75	1.80	11.25	1.90	.....	.....	.....	154.00	120.75	427.76
Rent	64.50	61.00	108.00	62.90	37.00	46.00	82.00	51.00	82.00	\$69.00	140.00	79.00	881.50
Board, priv. fam.	59.10	40.00	40.00	40.00	71.20	.....	.....	36.80	.....	.....	36.80	.....	323.90
Shoes	40.70	32.15	24.75	17.80	8.75	.....	8.50	15.40	32.90	6.32	49.84	15.44	252.05
Clothing .....	.....	.....	1.00	8.36	1.00	6.50	.....	.....	.....	.....	42.09	.....	58.95
Medicine	22.90	9.40	6.95	14.15	26.14	1.10	3.44	.50	36.14	.....	68.05	.....	188.77
Medical Aid	33.00	22.00	26.00	.....	39.00	.....	99.80	37.00	57.00	13.00	122.70	17.50	467.00
Burial .....	.....	.....	.....	15.00	.....	.....	.....	23.00	43.00	.....	4.00	.....	85.00
Cash	16.00	.....	8.00	8.00	.....	16.00	.....	.....	.....	44.00	.....	34.00	126.00
Insane Inst. ....	.....	1,579.55	.....	.....	851.51	.....	.....	\$36.31	.....	.....	883.66	.....	4,151.03
Board Inst. ....	.....	95.50	.....	.....	.....	42.25	.....	42.71	.....	.....	26.85	42.71	250.02
Cities and towns	.....	.....	63.00	75.50	64.00	119.15	.....	.....	72.50	.....	209.80	58.96	662.91
Sundries	59.96	20.00	18.60	19.25	41.25	19.96	12.00	38.30	30.50	17.00	37.88	26.81	341.51
Telephone	4.95	7.59	2.90	.....	.....	11.27	.85	.....	5.40	1.14	.....	8.53	42.63
Totals	\$562.42	\$2,048.44	\$543.83	\$388.30	\$1,334.15	\$366.46	\$346.69	\$1,307.31	\$505.64	\$150.46	\$2,313.66	\$599.70	\$10,444.06

REPORT OF THE CEMETERY COMMITTEE.

MELROSE, February 29, 1904.

To the Honorable Mayor and Board of Aldermen:

We submit herewith our report for the year ending January 31, 1904.

RECEIPTS.

Cash for dressing	\$22 00	
Foundations	419 12	
Grass	10 00	
Graves, single	201 00	
Interments	660 50	
Labor	342 00	
Lots, care of	1,837 48	
Lots, sold	1,566 00	
Markers	39 50	
Use of tomb	75 00	
Vaults	141 00	
Wood	7 54	
	<hr/>	\$5,321 14

EXPENDITURES.

Books, printing, stamps and telephone	\$65 57
Catch basins, frame and grates, .	6 25
Cement and lime	44 20
Dressing	102 00
Duck and tent canvas	32 20
Express and freight	10 64
Grass and lawn seed	10 97
	<hr/>
Amount carried forward	\$271 83

Amount brought forward,	\$271 83	
Grave and lot markers	15 75	
Gravel, loam and sod	270 60	
Hardware and tools	70 30	
Painting building and signs . .	19 07	
Plants and shrubs	83 59	
Repairing and sharpening tools .	27 65	
Repairing water pipes	10 05	
Salary of clerk	44 64	
" committee	100 00	
Sundries	3 25	
Water pipes and fittings	104 27	
Pay rolls: Supt., men and teams .	3,979 00	
	<hr/>	\$5,000 00
Total amount expended to January 31, 1903, in- cluding original purchase of land, also that of Pratt Farm	\$92,886 73	
Expended in 1903	5,000 00	
	<hr/>	\$97,886 73
Receipts from all sources to January		
31, 1903	\$85,034 57	
Received in 1903	5,321 14	
	<hr/>	\$90,355 71

Respectfully submitted,

JOHN P. DEERING,
L. HENRY KUNHARDT,

Cemetery Committee.

THIRTY-FOURTH ANNUAL REPORT
OF THE
TRUSTEES OF THE MELROSE PUBLIC LIBRARY
FOR THE YEAR 1903.

The Trustees of the Melrose Public Library respectfully present their report for the year 1903. The work has been conducted in accordance with lines followed in previous years and presents few notable features. We have endeavored to meet all reasonable wishes of our citizens in purchasing new books, and have given special attention to the rebinding of books, the condition of many of our heavier volumes demanding this care which has been delayed on account of lack of funds. The figures given in the Librarian's report, which includes the twelve months preceding January 1, 1904, do not show all the work done as the books were kept in use until late in the year, but were withdrawn and sent to the binder's after that date, but within the financial year. We have been exacting in regard to workmanship, and hope that the volumes used in the reading-room will not require further attention for several years, but in view of the quality of binding of books now published, we must spend a large sum each year for rebinding and replacing worn books. The demand for French and German books has exceeded our expectations and fully justifies their purchase. Many of our High School graduates have found in them a grateful opportunity to continue their study of these languages, and the selection has been approved by more advanced students. Our circulation has varied little from that of the preceding year. There is a slight reduction of less than 125. There were, however, over a thousand fewer books of fiction issued while every other depart-

ment shows an increase. This indicates that private circulating libraries, of which there are several in our city, have affected our circulation and the general result is satisfactory as we do not aim to meet an unlimited demand for new fiction.

Our attempt to maintain a branch at the Highlands has not been successful. The patronage has fallen off one third the past year. So few books are now delivered there that the cost per book to the library is increased greatly, and it is evident the arrangement by which exchanges have been made twice each week does not give satisfaction. As the central library will now be a little nearer that part of the city, and equally farther removed from sections to the East and South, it seems wise to discontinue this branch. At some future time it may be practicable to establish branches in each quarter of the city, but this would require larger appropriation and is not now demanded.

The spread of contagious diseases through the handling of library books is a subject to which we have given much thought. The employees of our library are instructed to use vigilance to prevent the reissue of books which might be the source of danger, but further precautions than we can take without the co-operation of the Board of Health are necessary. As a plan we proposed met with formal approval but has not been followed, we shall be glad to join with these officers in adopting this or any method that will give protection to the public.

We have received many gifts the entire list of which appears in the Librarian's report. The books from the library of the late Mr. Samuel E. Sewall and those by the Rev. Daniel P. Livermore have an additional value as mementoes of honored citizens. "The Historie Book," presented by Captain Folsom of the Ancient and Honorable Artillery Co., is a handsome volume of special interest,—the eight volumes of "Builders of Great Britain," received from Mr. Thomas D. Lockwood, give much information,—many others merit further mention,—all are gratefully received and will repay examination by our citizens.

The Treasurer's statement shows the condition of all

funds held by us. The policy we have followed of allowing interest on these to accumulate will enable us at this time to make purchases demanded by the enlargement of our rooms for which our regular appropriation would be insufficient. Each reading-room must be supplied with many reference books which are of an expensive class and the cost of an enlargement of our card-catalogue must be met.

For several years the reports of Library Trustees presented appeal for increased accommodations which would require a new building. For the past two years we have expressed our pleasure in the prospect of the fulfilment of our desires. Now that we are on the eve of removal some presentation of our plans and hopes for the future of the library seems desirable.

The open-shelf system which allows card-holders free access to the stack-room and opportunity to choose books by examination has been tried and approved in many cities and we purpose to introduce this system, not to the exclusion of our present use of application slips, but in addition to it. We believe the disappointment frequently expressed at failure to secure one of the newest publications will give place to a happy recognition of the wide range of excellent reading our library affords, as many books from which pleasure and profit may be derived will be brought to notice.

The change of location may cause a temporary reduction of our circulation. It will not be as convenient as formerly to drop in and exchange books whenever one is near the business section of our city, nor can one pass in a few steps from the street cars to the delivery-room, but we are convinced our people will not long forego the enjoyment of privileges to which they have become accustomed.

We believe the advantages of our reading-room will be more fully utilized than in the past. The disturbance caused by the passing of cars and heavy wagons, and the annoyance resulting from the restlessness and occasional mischievousness of some of our younger visitors will not be experienced, and although there may be a loss in numbers reported, there will be increase in the comfort of those attending, and the freedom from interruption will ensure the

presence of attentive readers. The seclusion of the reference-room will further meet the needs of students. Books will be sent here on application and can be studied at leisure. To afford greater facilities the trustee room may be used as an annex when necessary and consultation among those mutually interested in any subject will be made possible.

The room intended for the use of young people will be supplied with suitable reading matter and with reference books. Later, as our means shall permit, educational features now commonly included in library work will be introduced. We can make no definite announcement concerning these at present, nor can we state with certainty the use to which the only remaining large room in the building will be devoted. We wish to arrange for occasional exhibitions of photographs and other pictures, and desire also to form a permanent museum of articles of historic interest. We hope our citizens individually and the many societies of our city will contribute to secure this result. Already rumors of kind intentions reach us and we welcome such indications of interest felt, and shall welcome any gifts which may be of value from their associations or because of artistic merit.

In considering the needs of the library for the coming year we find retrenchment in some departments will be impossible. We must have intelligent service and the building with its interests must be cared for, therefore the item for salaries must be increased. Rent will be required for a very brief period. The allowance already made for removal will probably be available when needed. Heating and lighting will be costly, but necessary. To reduce sum spent for general expenses will necessitate purchasing fewer books, or library hours must be shortened. The public would complain if either of these courses should be adopted. To continue our work, therefore, on the economic basis suggested in the inaugural address of his Honor the Mayor, we ask for the unexpended amount for removal, and for \$3,000 and the dog tax, to be used for the following purposes: For removal, \$200; janitor and his utensils, \$500;

salaries of library employees, \$1,200; new books and magazines, \$1,000; rebinding and replacing worn books, \$600; library supplies and printing, \$200; rent for one month, \$100; fuel, light and water, \$500.

We wish to express our gratification at the liberal allowance made for furnishing the new building, and our appreciation of the interest shown by the committee on Public Library, and working only for the benefit of the public, we trust we may receive continued and generous support.

Respectfully submitted,

CHARLES C. BARRY,
ELBRIDGE H. GOSS,
EDWARD M. MUNYAN,
MARY L. CHARLES,
NEIL A. DIVVER,
MARIA L. CHAPIN,

Trustees of the Melrose Public Library.

MARIA L. CHAPIN, Secretary.

LIBRARIAN'S REPORT.

STATISTICS FOR THE YEAR 1903.

Number of volumes in the library Jan. 1, 1903	.	14,470
“ “ purchased in 1903	. 467	
“ “ donated in 1903	. 32	
“ “ magazines bound in 1903	. 40	
	—	539
Number of volumes in the library Jan. 1, 1903	.	15,009
Number of persons using the library Jan. 1, 1903		7,793
“ “ cards issued in 1903	. 513	
“ “ relinquished in 1903	. 15	
	—	498
Number of persons using the library Jan. 1, 1904		8,291

LIBRARY REPORT.

241

Number of students' cards issued in 1903 . . .	183
“ teachers' cards issued in 1903 . . .	25
“ volumes replaced in 1903 . . .	196
“ “ rebound in 1903 . . .	765
“ days the library was open . . .	297

CIRCULATION.

Largest number of books issued in one day . . .	578
Smallest “ “ “ “ “ (stormy) . . .	83
Largest “ “ “ “ month . . .	6,137
Smallest “ “ “ “ “ . . .	4,332
Number of volumes delivered at the Highlands . . .	2,363
Total number of volumes issued in 1903 . . .	62,029

	Circulation	Per cent
Fiction and Juvenile	48,350	77.95
History and Travel	3,115	5.02
Science and Art	2,217	3.57
Biography	1,470	2.37
Literature and Essays	1,270	2.05
Religion	1,132	1.83
Poetry and Drama	702	1.13
Magazine	3,773	6.08
	<hr/> 62,029	<hr/> 100.00

READING-ROOM.

Number of persons using reading-room Jan. 1, 1903 . . .	28,018
“ “ “ “ “ I, 1904 . . .	28,365
Largest number of visitors in one month . . .	2,976
Smallest “ “ “ “ . . .	1,603
Books brought from library for use in reading-room . . .	564
Books taken on teacher's card for school use . . .	479

DONATIONS — BOOKS.

	Vol.
Acts and Resolves of Mass. State	1
Annual Report of Met. Water and Sewerage Board .	1
“ “ Commissioners of Education State	2
“ “ Smithsonian Institute	
Ancient Wisdom. A. Besant . . . Mr. H. E. Glazier	
Boston Common in Colonial and Provincial Times.	
Mrs. M. F. Ayer, Mr. John W. Farwell	1
Builders of Great Britain . . . Mr. Thos. D. Lockwood	8
Daniel Webster, the Orator . . . Mr. A. E. Pillsbury	1
Dorchester Heights Monument Memorial . . . State	1
Historie Book Capt. A. A. Folsom	1
History of Coinage and Currency in U. S.	
Mr. A. B. Hepburn	1
History of Woman's Suffrage . . Mrs. M. A. Livermore	4
Mass. Soldiers and Sailors of the Revolutionary War.	
Vol. IX. State	1
Newburyport and the City Government	
Mr. A. E. Pillsbury	1
Old Records of the Town of Fitchburg. Vol. V.	
City of Fitchburg	1
Proof Texts of Endless Punishment . . . D. P. Livermore	4
Mrs. M. A. Livermore	1
Rise and Progress of the Standard Oil Co.	
Harper & Bros.	1
Science and Health with Key to Scriptures.	
First Church of Christ of Malden	1
World's Parliament of Religions Mrs. M. A. Livermore	2
Hosea Ballou and the Gospel Renaissance of the Nine-	
teenth Century Universalist Pub. House	1
Books and Pamphlets from Library of Samuel E. Sewall	

PAMPHLETS.

	Vol.
Annual Report of The Indian Rights Association . .	1
Lake Mohonk Conference	1
Mass. Total Abstinence Society . . .	1

Annual Report of President of Tufts College . . .	I
Soldiers' Home, Chelsea . . .	I
Abbot Public Library, Marblehead . . .	I
Beverly Public Library, Beverly, Mass. . .	I
Boston Public Library, Boston, Mass. . .	I
Brookline Public Library, Brookline . . .	I
Chicago Public Library, Chicago, Ill. . .	I
Concord Public Library, Concord . . .	I
Erie Public Library, Erie, Penn. . .	I
Fitz Public Library, Chelsea, Mass. . .	I
Forbes Public Library, Northampton . . .	I
Lancaster Public Library, Lancaster . . .	I
Leicester Public Library, Leicester . . .	I
Malden Public Library, Malden, Mass. . .	I
Manchester Public Library, Manches- ter, N. H.	I
Mercantile Public Library, St. Louis, Mo.	I
Newton Public Library, Newton, Mass. . .	I
Northampton Public Library, North- ampton, Mass.	I
Peabody Institute, Danvers, Mass. . .	I
Peabody Institute, Peabody, Mass. . .	I
Philadelphia Free Library, Philadel- phia, Penn.	I
Parlin Public Library, Parlin, Mass. . .	I
Salem Public Library, Salem, Mass. . .	I
The Shute Memorial Library, Everett . .	I
Tufts Public Library	I
Worcester Public Library	I
Trustees of Public Reservations . . .	I
265th Annual Record of the Ancient and Honorable Ar- tillery Company of Massachusetts	I
The Hawaiian Islands	I
Journal of Prison Discipline and Philanthropy . . .	I
Municipal Affairs.	33

PERIODICALS IN THE READING-ROOM.

American Boy.	
American Inventor.	
Arena.	
Art Exchange.	
Atlantic Monthly	Three copies
Birds and Nature.	
Bookman.	
Century Magazine	Three copies
Chautauquan Magazine.	
Christian Science Journal .	First Church of Christ, Malden
Christian Science Sentinel .	First Church of Christ, Malden
Everybody.	
Engineering	W. H. Wiley
Forest and Stream.	
Forum.	
Gartenlaube.	
Handicraft.	
Harper's Magazine	Three copies
" Bazaar.	
" Weekly.	
Heating and Ventilation.	
Home Science Magazine.	
International Studio.	
Kindergarten Review.	
Ladies' Home Journal.	
Lamp.	
Library Journal.	
Life.	
Lippincott Magazine.	
Literary Digest.	
Literary News.	
Littell's Living Age.	
London Illustrated News.	
McClure's Magazine.	
Munsey's Magazine.	
Nation.	
National Magazine.	
New England Magazine	Three copies

New England Homestead.
 North American Review.
 Outing Magazine.
 Outlook.
 Overland.
 Protectionist.
 Popular Science Monthly.
 Public Libraries.
 Review of Reviews.
 Scientific American.
 Scientific American Architect and Builder.
 Scientific Supplement.
 Scribner's Magazine Three copies
 St. Nicholas.
 Strand.
 Success.
 Sunset.
 Saturday Evening Post.
 Week's Progress.
 World's Work.
 Youth's Companion.

PAPERS IN READING-ROOM.

Chicago Inter-Ocean.
 Cincinnati Gazette.
 Melrose Reporter Mr. A. W. Dunton
 Melrose Journal Mr. Chas. H. Adams
 Melrose Free Press Mr. S. G. Potter
 New York Tribune.
 Pilot.
 Springfield Republican.
 Tufts Weekly.

CARRIE M. WORTHEN,
 Librarian.

REPORT OF TREASURER OF LIBRARY FUNDS FOR YEAR ENDING
DEC. 31, 1903.

William Emerson Barrett Fund.

CR.

Amount on hand Jan 1, 1903	\$81 12
Interest from Melrose Savings Bank	2 80
	<hr/>
	\$83 92

DR.

Paid Charles E. Lauriat Co. bill	\$1 62
Paid DeWolfe, Fisk & Co. bill	1 35
Balance to new account	80 95
	<hr/>
	\$83 92

Horatio Nelson Perkins Fund.

CR.

Amount on hand Jan. 1, 1903	\$679 42
Interest from Melrose Savings Bank	21 77
	<hr/>
	\$701 19

DR.

Paid Dodd, Mead & Co.'s bills	\$61 60
Paid American Library Co. bill	12 00
Balance to new account	627 59
	<hr/>
	\$701 19

William Bailey Fund.

CR.

Amount on hand Jan. 1, 1903	\$2,981 45
Interest from Melrose Savings Bank	30 73
“ on City of Melrose note, \$2,000 (to Aug. 6)	42 97
	<hr/>
	\$3,055 15

DR.

Paid Chas. E. Lauriat Co. bills . . .	\$24 20	
Paid W. B. Clarke Co. bills . . .	52 70	
Mass. Historical Society bills . . .	6 00	
Paid C. A. Koehler & Co. bills . . .	54 33	
Paid Oxford Univ. Press bills . . .	3 89	
Balance to new account . . .	2,914 08	
	<hr/>	\$3,055 20

Catalogue Fund.

CR.

Amount on hand Jan. 1, 1903 . . .	\$626 45
Interest from Melrose Savings Bank . . .	21 51
Cash received from librarian for fines . . .	133 40
	<hr/>
	\$781 36

DR.

Paid A. W. Dunton Printing Co. bills (Annual Reports and Bulletin No. 8)	\$36 50	
S. G. Potter bill	50	
Paid Library Bureau bill	11 40	
Paid sundry expenses at library for year 1903	53 40	
To balance to new account	679 56	
	<hr/>	\$781 36

ASSETS.

Catalogue Fund, cash on hand and in Melrose Savings Bank, book No. 5998	\$679 56
William Emerson Barrett Fund, cash in Melrose Savings Bank, book No. 3445	80 95
	<hr/>
Amount carried forward,	\$760 51

Amount brought forward,	\$760 51
Horatio Nelson Perkins Fund, cash in Melrose Savings Bank, book No. 1640	627 59
William Bailey Fund, City of Melrose note (dated Aug. 6, '93)	2,000 00
William Bailey Fund, cash in Melrose Savings Bank, book No. 8185	914 08
	<hr/>
	\$4,302 18

EDWARD M. MUNYAN,
Treasurer.

The above has been examined and found correct.

NEIL A. DIVVER,
Auditor.

Report of the Inspector of Buildings.

CITY OF MELROSE, January 1, 1904.

Honorable Mayor Buttrick and the Honorable Board of Aldermen :

GENTLEMEN: The fourth annual report of this department shows an increase in building.

The new Public Library and the new Methodist Church are buildings which are a credit to our city.

The following table shows the number of inspections made by this department, and character of alterations ordered :

Inspection of chimneys	21
Dangerous "	21
Faulty fireplace construction	
Changes in furnace pipes	2
" boilers	3
Fire escapes	6
Inspection of buildings in construction and alteration	150

The following table shows the number of permits granted for each month of the year 1903.

January	.	.	.	.	.	.	.	.	.	6
February	.	.	.	.	.	.	.	.	.	8
March	.	.	.	.	.	.	.	.	.	18
April	.	.	.	.	.	.	.	.	.	10
May	.	.	.	.	.	.	.	.	.	13
June	.	.	.	.	.	.	.	.	.	8
July	.	.	.	.	.	.	.	.	.	11
August	.	.	.	.	.	.	.	.	.	12
September	.	.	.	.	.	.	.	.	.	16
October	.	.	.	.	.	.	.	.	.	8
November	.	.	.	.	.	.	.	.	.	7
December	.	.	.	.	.	.	.	.	.	7
Total	.	.	.	.	.	.	.	.	.	124

The following table shows the number of permits granted in each ward, and the use for which they were intended :

BUILDINGS.	Wards.							Totals.
	1	2	3	4	5	6	7	
Additions	3	7	4	8	4	11	7	44
Alterations and repairs.....	..	..	5	..	..	2	4	11
Carriage houses.....	..	..	..	..	..	..	..	..
Chimneys .....	..	..	..	1	..	3	..	4
Factories	1	..	..	..	..	..	..	1
Foundations	3	1	1	1	..	2	..	8
Stables	2	1	1	..	1	1	1	7
Store houses.. .....	..	..	2	1	1	1	1	6
Dwellings	4	4	3	4	3	7	3	28
Miscellaneous	1	5	3	3	1	2	..	15
	14	18	19	18	10	29	16	124

COST OF BUILDINGS FOR THE YEAR 1903.

	Ward 1.		Ward 2.		Ward 3.		Ward 4.		Ward 5.		Ward 6.		Ward 7.		Totals.	
	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs
January ..	\$11,350	.....	.....	\$ 75	.....	.....	\$ 4,500	.....	.....	.....	\$2,500	.....	.....	.....	\$ 18,350	\$ 75
February .	.....	.....	.....	300	.....	\$40	35,000	.....	.....	\$300	.....	\$900	.....	.....	35,000	1,540
March ....	.....	.....	\$7,600	1,890	\$9,000	.....	.....	\$3,000	.....	.....	3,500	225	\$1,500	2,000	21,600	7,115
April .....	.....	.....	750	.....	3,000	385	.....	350	.....	150	.....	150	.....	100	3,750	1,135
May	800	\$300	.....	.....	.....	250	.....	.....	.....	775	.....	255	.....	800	800	2,380
June .....	.....	835	4,550	.....	100	.....	.....	.....	.....	.....	2,000	.....	.....	300	6,650	1,135
July	12,000	.....	.....	.....	.....	.....	13,000	.....	\$7,500	.....	.....	150	.....	1,900	32,500	2,050
August ...	4,900	200	25	150	.....	250	.....	450	.....	.....	.....	50	.....	500	4,925	1,600
September	..	35	2,300	.....	.....	300	.....	75	.....	.....	.....	545	.....	475	2,300	1,430
October ..	.....	.....	4,000	130	.....	25	.....	50	.....	.....	3,000	50	800	.....	7,800	255
November	.....	.....	.....	.....	.....	500	.....	.....	10,800	.....	2,650	1,800	.....	.....	13,450	2,300
December.	.....	.....	200	.....	.....	.....	.....	275	8,500	.....	70	.....	.....	75	8,770	350
	\$29,050	\$1,370	\$19,425	\$2,545	\$12,100	\$1,750	\$52,500	\$4,200	\$26,800	\$1,225	\$13,720	\$4,125	\$2,300	\$6,150	\$155,895	\$21,365

Contingent	\$50 00
Balance unexpended	\$50 00

In conclusion I wish to express my thanks for assistance rendered by His Honor the Mayor and other departments.

Respectfully submitted,

W. A. GOODNO,

Inspector of Buildings.

Report of the Sealer of Weights and Measures.

To His Honor the Mayor of the City of Melrose :

SIR : I herewith respectfully submit the annual report of the sealer of weights and measures department, for the year ending January 31, 1904.

EXPENSES.

Salary from Feb. 1, 1903 to Feb. 1, 1904	\$200 00
Posters	3 00
Posting	2 00
1 Sealing Press, 100 wires and lead seals	4 50
1 Lock for office door	2 25
1 Set Seals	6 85
1 Dating Stamp for receipts	2 00
Repairing drills, express charges, etc.	1 40

Total expenses from Feb. 1, 1903 to Feb. 1, 1904, \$222 00

EARNINGS OF DEPARTMENT.

Total amount of earnings from Feb. 1, 1903 to Feb. 1, 1904	\$39 90
Amount uncollected due department	4 01
	<hr/>
	\$35 89
Unpaid bills previous financial year paid to treasurer,	3 03
	<hr/>
	\$38 92

OPERATIONS OF THE DEPARTMENT FROM
FEB. 1, 1903 TO FEB. 1, 1904.

Number of scales to 10 tons capacity tested	4
“ “ tested for city	1
“ “ 2 tons capacity tested	1
“ “ over 5,000 lbs capacity tested	3
“ portable platform scales tested	26
“ counter “ “ “	4
“ spring balances tested	33
“ trip scales tested	3
“ counter balances tested	43
	<hr/>
Total number scales tested	118
Number of scales tested and found correct	112
“ “ adjusted before sealing	5
“ seals condemned	1
	<hr/>
	118
Number of weights tested and found correct	340
“ “ “ “ “ light and adjusted	23
Number of weights tested and found heavy and adjusted	2
	<hr/>
Total number of weights tested	365

REPORT OF SEALER OF WEIGHTS AND MEASURES. 253

Number of dry measures tested and found correct	108
“ “ “ “ “ condemned .	6

Total number of dry measures tested . .	114
-----------------------------------------	-----

Number of wet measures, including glass milk jars and cans, tested and found correct. . .	8,135
----------------------------------------------------------------------------------------------	-------

Number of wet measures, including glass milk jars, tested and condemned	46
--------------------------------------------------------------------------------------	----

Total number wet measures tested . .	8,181
--------------------------------------	-------

THE AMOUNT OF WORK DONE IN THE OFFICE FROM
FEB. 1, 1903 TO FEB. 1, 1904.

Scales of all descriptions tested	18
---------------------------------------------	----

Weights tested	40
--------------------------	----

Dry measures tested	33
-------------------------------	----

Wet measures including milk jars and cans tested .	8,052
----------------------------------------------------	-------

Yardsticks	4
----------------------	---

Total pieces tested in the office	8,147
---------------------------------------------	-------

Yours respectfully,

WILLIAM L. PIERCE,

Sealer of Weights and Measures.

MELROSE, February 8, 1904.

Report of Sinking Fund Commissioners

FOR FINANCIAL YEAR ENDING
JANUARY 31, 1904.

WATER LOAN SINKING FUND.

DR.

Balance from last year	\$2,130 39
Received interest:	
On notes	\$576 97
From coupons	930 00
Deposits in Nat'l Bank	22 69
Deposits in Savings Bank	37 78
City of Melrose premium on Water Bonds	1,450 00
City of Melrose, surplus of water department, 1902	5,221 74
City of Melrose paid:	
Two surface drainage notes, Oct. 20, '02,	4,000 00
The part of \$10,000, note of April 9, '03, 6 mos.	2,000 00
	<u>14,239 18</u>
	\$16,369 57

CR.

Loaned City of Melrose	\$2,000 00
Paid W. R. Lavender, Treasurer, half of salary for 1 year to Jan. 31, '03	25 00
Paid Boston Safe Dep. & T. Co., half rent of box 1 year to May 14, '04	7 50
	<u> </u>
Amounts carried forward	\$2,032 50 \$16,369 57

Amounts brought forward	\$2,032 50	\$16,369 57
Bought of City of Melrose:		
3 surface drainage 4% bonds, due 1932		
Nos. 1, 2, 3	3,000 00	
Premium on 3 surf. drng. bonds 109.24	277 20	
Accrued interest on above bonds	5 34	
Bought of Jackson & Curtis:		
5 City of St. Louis 4% bonds, due 1905		
Nos. 11372 to 11376 inclusive	5,000 00	
Premium on above bonds @ 100.¼	12 50	
Accrued interest on above bonds	15 00	
Bought of City of Melrose:		
5 Melrose 4% water bonds, due 1918,		
Nos. 456 to 460 inclusive	5,000 00	
Premium on above 5 bonds @ 105.80	290 00	
Accrued interest on 5 water bonds	66 67	
Part of 1 Melrose water 4% bond (re-		
mainder owned by C. F. Sta. fund)		
due 1918, No. 455	200 00	
All premium on 1 water bond @ 105.80	58 00	
All accrued interest on water bond	13 33	
	<hr/>	15,970 54
Balance on hand		\$399 03
Deposited in Melrose Nat'l Bank	\$275 06	
Deposited in Melrose Savings Bank	123 97	
	<hr/>	399 03
		<hr/>

LIST OF SECURITIES OWNED BY WATER LOAN SINKING FUND.

	Cost Price.	Par Value.		
Melrose water bonds, 4 per cent.:				
1 due 1905, No. 32	\$1,056 00	\$1,000 00	✓	x
5 due 1907, Nos. 36 to 40 inclusive	5,232 22	5,000 00	✓	x
4 due 1913, Nos. 35 to 38 inclusive	4,000 00	4,000 00	✓	x
10 due 1925, Nos. 428 to 437 inclusive	10,000 00	10,000 00	✓	x
	<hr/>	<hr/>		
Amounts carried forward	\$20,288 22	\$20,000 00		

Amounts brought forward . . .	\$20,288 22	\$20,000 00		
5 due 1918, Nos. 456 to 460 inclusive . . .	5,290 00	5,000 00	✓	X
Part of 1 due 1918, No. 455; (remainder owned by C. F. Sta. fund) . . .	258 00	200 00	✓	200 1906
3 Melrose surf. drng. bonds, 4 per cent., due 1932, Nos. 1 to 3 inclusive . . .	3,277 20	3,000 00	✓	X
5 City of St. Louis bonds, 4 per cent., due 1905, Nos. 11372 to 11376 inc. . .	5,012 50	5,000 00	✓	X
2 Town of Milton bonds, 3½ per cent., due 1912, Nos. 87 and 88 . . .	2,035 00	2,000 00	✓	X
Note City of Melrose, March 25, 1903, 3½ per cent., 18 months . . .	1,100 00	1,100 00	✓	paid 1906
3 Melrose surf. drainage notes, 3½ per cent., each \$2,000, due 1904, '05, '06 . . .	6,000 00	6,000 00	✓	192 1906
Cash Melrose National Bank . . .	275 06	275 06		
Cash Melrose Savings Bank . . .	123 97	123 97		
	<hr/>	<hr/>		
	\$43,659 95	\$42,699 03		

SEWER LOAN SINKING FUND.

DR.

Balance from last year . . .	\$3,572 44
Received interest on notes . . .	\$2,037 99
“ “ “ coupons . . .	2,566 00
“ “ “ Deposit Nat'l Bank . . .	55 47
“ “ “ “ Savings “ . . .	2 83
City of Melrose, paid notes . . .	40,703 33
Received for Malden bonds matured . . .	3,000 00
“ “ Fitchburg R. R. “ . . .	5,000 00
	<hr/>
	\$53,365 62
	<hr/>
Amount carried forward . . .	\$56,938 06

Amount brought forward \$56,938 06

CR.

Loan City of Melrose note Apr. 9	\$2,000 00	
" " " " " Dec. 8	10,000 00	
Paid W. R. Lavender, Treasurer, half of salary for 1 yr. to Jan. 31, '03	25 00	
Paid Boston Safe Dep. & T. Co., half rent of box 1 yr. to May 11, '04	7 50	
Bought of City of Melrose:		
17 surf. drainage, 4% bonds, due 1932, Nos. 4 to 20 inclusive	17,000 00	
Premium on 17 surf. dra. bonds 109.24	1,570 80	
Accrued int. on above bonds	30 22	
Bought of City of Melrose:		
2 Water bonds, 4%, due 1918, Nos. 438 and 439	2,000 00	
Premium on 2 water bonds 105.80	116 00	
Accrued int. on 2 water bonds	33 33	
Bought of City of Melrose:		
20 surf. dra. bonds, 4 %, due 1932, Nos. 21 to 40 inclusive	20,000 00	
Premium on 20 surf. dra. bonds at 109.24	1,848 00	
Accrued int. on above bonds	368 89	
Bought of City of Melrose:		
1 Water bond 4%, due 1918, No. 450. . . .	1,000 00	
Premium on 1 water bond at 105.80	58 00	
Accrued int. on above bonds	13 33	
	<hr/>	\$56,071 07
Balance on hand	\$	866 99
Deposited in Melrose Nat'l Bank	823 48	
" " " Savings "	43 51	866 99

LIST OF SECURITIES OWNED BY SEWER LOAN SINKING FUND.

	Cost Price	Par Value	
6 Melrose park loan coupon notes, 4%, due 1904-1909, inclusive, 5 each			
\$1000	\$5,000 00	\$5,000 00	✓
1 due 1909	6,000 00	6,000 00	✓
10 Melrose sewer bonds, 4%, 1917, Nos. 301-310 inclusive	11,258 05	10,000 00	✓
17 Melrose surface drainage bonds, 1st issue, 4%, due 1932, Nos. 4-20 inclusive	18,570 80	17,000 00	✓
20 Melrose surface drainage bond, 2nd issue, 4%, due 1932, Nos. 21-40 inclusive	21,848 00	20,000 00	✓
2 Melrose water bonds, 4%, 1918, Nos. 438-439 inclusive	2,116 00	2,000 00	✓
Note City of Melrose, 3½%, due Nov. 25, 1904	3,500 00	3,500 00	✓
Note City of Melrose, discounted, due Dec. 8, 1904	10,000 00	10,000 00	✓
1 Melrose water bond, 4%, 1918, No. 450	1,058 00	1,000 00	✓
4 Waltham bonds, 4%, 1913, Nos. 257-260 inclusive	4,398 44	4,000 00	✓
3 Boston & Lowell R. R. bonds, 4%, 1905, Nos. 167-169 inclusive	3,132 58	3,000 00	✓
3 Chicago B. & Q. R. R. bonds, 3½%, 1949, Nos. 7695-7697 inclusive	3,157 42	3,000 00	✓
2 City of Malden bonds, 4% 1904, Nos. 364 and 366	2,051 10	2,000 00	✓
2 Town of Milton bonds, 3½%, 1912, Nos. 82 and 83	2,035 00	2,000 00	✓
Part 1 Town of Milton bond, 3½%, 1912, No. 84 (remainder owned by School fund)	600 00	600 00	✓
Cash Melrose National Bank	823 48	823 48	
Cash Melrose Savings Bank	43 51	43 51	
	<hr/>	<hr/>	
	\$95,592 38	\$89,966 99	

Schwe 160000 1000 1000

DR.

Balance on hand from last year	\$392 43	
Received interest on notes	575 40	
" " " coupons	574 00	
" " Melrose Nat. Bank		
on deposit	23 48	
Received interest Melrose Savings Bk.		
on deposit	7 21	
Received City of Melrose, appropria-		
tions for 1902 and 1903	14,444 00	
City of Melrose, paid notes	6,000 00	
	<hr/>	\$22,016 52

CR.

Paid Thorp & Martin Co., ½ of ledger	50	
Loaned City of Melrose, note April 9,		
6 mos.	6,000 00	
Loaned City of Melrose, note Nov. 24,		
1 year	8,000 00	
Bought of City of Melrose:		
7 Water Bonds, 4 per cent, due 1918,		
Nos. 440 to 446 inclusive	7,000 00	
Premium on 7 water bonds, at		
105.80	406 00	
Accrued interest on 7 water bonds	116 67	
Bought of City of Melrose:		
Part of 1 water bond, 4 per cent., due		
1918, No. 451, (remainder owned		
by stone crusher fund)	200 00	
All premium on 1 water bond,		
at 105.80	58 00	
All accrued interest on 1 water bond	13 33	21,794 50
	<hr/>	
Balance on hand		\$222 02
Deposited in Melrose National Bank	\$10 38	
" " " Savings "	211 64	222 02

CITY OF MELROSE

LIST OF SECURITIES BELONGING TO SCHOOL HOUSE
LOAN SINKING FUND.

	Cost Price	Par Value	
7 Melrose water bonds, 4 per cent., due 1918, Nos. 440 to 446 inclusive	\$7,406 00	\$7,000 00	✓
Part of 1 Melrose water bond, 4 per cent., due 1918, No. 451 (remainder owned by stone crusher fund)	258 00	200 00	✓ <i>Original - Melrose 1918</i>
Note, City of Melrose, March 25, '03, 18 mos., 3½ per cent..	5,400 00	5,400 00	✓ <i>1904 Sept 27 1904</i>
Note, City of Melrose, Nov. 24, '03, 1 year, discounted	8,000 00	8,000 00	✓ <i>1904 - 1905</i>
10 Town of Clinton bonds, 3½ per cent., due 1930, Nos. 132 to 141 inclusive	10,924 72	10,000 00	✓
2 Town of Milton bonds, 3½ per cent. due 1912, Nos. 85 and 86	2,035 00	2,000 00	✓
Part of 1 Town of Milton bond, 3½ per cent., due 1912, No. 84, (remainder owned by sewer fund,)	417 50	400 00	✓ <i>Original - Melrose 1912</i>
Cash Melrose National Bank	10 38	10 38	
" " Savings Bank	211 64	211 64	
	<hr/>	<hr/>	
	\$34,663 24	\$33,222 02	

TOWN HALL LOAN SINKING FUND

DR.

City of Melrose, appropriation for 1902	\$1,537 65	
" " " " " 1903	1,537 65	
Interest, Melrose Nat'l bank on deposit	14 62	
" from coupons	20 00	
	<hr/>	\$3,109 92

CR.

Paid Thorp & Martin Co. ½ of ledger	50	
Bought of City of Melrose:		
1 water bond, 4 per cent., due 1918, No.		
447	1,000 00	
Premium on 1 water bond at 105.80	58 00	
Accrued int. on 1 water bond	16 67	
Bought of City of Melrose:		
1 water bond, 4 per cent., due 1918, No.		
449	1,000 00	
Premium on 1 water bond at 105.80	58 00	
Accrued int. on 1 water bond	13 34	
Part 1 water bond, 4 per cent., due 1918,		
No. 461 (remainder owned by surf.		
dra. fund)	800 00	
All premium on 1 water bond	58 00	
All accrued int. on 1 water bond	13 33	3,017 84
	<hr/>	<hr/>
Balance on hand, deposited in Melrose		
National bank		\$92 08

LIST OF SECURITIES BELONGING TO TOWN LOAN
SINKING FUND.

	Cost Price	Par Value
2 Melrose water bonds, 4 per cent., due		
1918, Nos. 447 and 449.	\$ 2,116 00	2,000 00
Part 1 Melrose water bond, 4 per cent.,		
due 1918, No. 461 (remainder owned		
by surf. dra. fund)	858 00	800 00
Cash in Melrose National bank	92 08	92 08
	<hr/>	<hr/>
	\$3,066 08	\$2,892 08

SURFACE DRAINAGE LOAN SINKING FUND.

DR.

City of Melrose:

Premium received on 20 30-yr. bonds	
at 109.24	\$1,848 00
Appropriation for 1903	374 40
Premium received on 20 30-yr. bonds	
at 109.24	1,848 00
	<hr/>
	\$4,070 40

CR.

Bought of City of Melrose:

3 water bonds, 4 per cent., due 1918,	
Nos. 452 to 454 inclusive	3,000 00
Premium on 3 water bonds at 105.80	174 00
Accrued interest on 3 water bonds,	40 00
Part 1 water bond, 4 per cent., due	
1918, No. 461 (remainder owned	
by town hall fund)	200 00
Part 1 water bond, 4 per cent., due	
1918, No. 462 (remainder owned	
by C. F. Sta. and school fund)	650 00
	<hr/>
	\$4,064 00
	<hr/>
Balance on hand, deposited in	
Melrose National bank	6 40

LIST OF SECURITIES BELONGING TO SURFACE DRAINAGE LOAN
SINKING FUND.

	Cost Price.	Par Value.
Melrose water bonds, 4 per cent.:		
3 due 1918, Nos. 452 to 454 inclusive	\$3,174 00	\$3,000 00
Part 1 due 1918, No. 461 (remainder		
owned by Town Hall fund)	200 00	200 00
Part 1 due 1918, No. 462 (remainder		
owned by C. F. Sta. and School		
fund)	650 00	650 00
Cash in Melrose National Bank	6 40	6 40
	<hr/>	<hr/>
	\$4,030 40	\$3,856 40

CENTRAL FIRE STATION NOTE SINKING FUND.

DR.

City of Melrose, appropriation for 1903	\$800 00	\$800 00
	<u> </u>	

CR.

Bought of City of Melrose,		
Part I water bond, 4 per cent., due		
1918, No. 455, (remainder owned		
by Water fund)	\$800 00	\$800 00
	<u> </u>	<u> </u>

LIST OF SECURITIES BELONGING TO CENTRAL FIRE STATION
AND SCHOOL NOTE SINKING FUND.

	Cost Price	Par Value
Part I Melrose water bond, 4 per cent.,		
due 1918, No. 455 (remainder		
owned by water fund)	\$800 00	\$800 00

STONE CRUSHER NOTE FUND.

DR.

City of Melrose, appropriation for 1903	\$800 00	\$800 00
	<u> </u>	

CR.

Bought of City of Melrose:		
Part I water bond, 4 per cent., due		
1918, No. 451 (remainder owned		
by School fund)	\$800 00	\$800 00
	<u> </u>	<u> </u>

LIST OF SECURITIES BELONGING TO STONE CRUSHER NOTE
SINKING FUND.

	Cost Price	Par Value
Part I Melrose water bond, 4 per		
cent., due 1918, No. 451 (remainder		
owned by School fund)	\$800 00	\$800 00

CENTRAL FIRE STATION AND SCHOOL NOTE SINKING FUND.

DR.

City of Melrose, appropriation for 1903 \$1,520 00
 ----- \$1,520 00

CR.

Bought of City of Melrose:
 1 water bond, 4 per cent., due 1918,
 No. 448 \$1,000 00
 Premium on 1 water bond, per cent. 105.80 58 00
 Accrued int. on 1 water bond . . . 13 34
 Bought of City of Melrose:
 Part of 1 water bond, 4 per cent., due
 1918, No. 462 (remainder owned by
 Surface Drainage fund) . . . 350 00
 All premium on 1 water bond, at 105.80 58 00
 All accrued int. on 1 water bond . . 13 33
 Balance on hand, deposited in Melrose
 National bank 27 33
 ----- 1,520 00

LIST OF SECURITIES BELONGING TO CENTRAL FIRE STATION
AND SCHOOL NOTE SINKING FUND.

	Cost Price	Par Value
1 Melrose water bond, 4 per cent., due 1918, No. 448	\$1,058 00	\$1,000 00
Part of 1 Melrose water bond, 4 per cent., due 1918, No. 462 508	408 00	350 00
Cash in Melrose National bank	27 33	27 33
	-----	-----
	\$1,493 33	\$1,377 33

DANIEL RUSSELL,
 JOHN W. FARWELL,
 CHARLES C. BARRY,
 Sinking Fund Commissioners.

Report of the Board of Health.

To His Honor the Mayor and the Honorable Board of Aldermen.

GENTLEMEN:—The Board of Health herewith submit their annual report for the year 1903. The membership has continued the same as for the previous year, viz., Joseph H. Robinson, John T. Timlin, and Paul H. Provandie, M. D., as chairman. In November the place of Inspector of Animals and Food products became vacant through the death of Wm. H. Dole, who for the last two years had been satisfactorily filling that position. Mr. Dole had been connected with the board as a member for some years and his death is regretted.

We have been fortunate in regard to contagious disease this year there being fewer cases than for several preceding years. The contagious hospital demonstrated its usefulness, when in July and August we were called upon to care for and isolate 9 cases of diphtheria and 1 of measles. Of these 5 had a settlement in Melrose, 1 in Boston, and 4 belonged to the State. Under the careful attention of efficient nurses all made successful recoveries except one who was past relief when reported. February 24 closed the last case of smallpox with which we were afflicted.

Whole number of contagious diseases reported from Jan. 1903 to Jan. 1904, one hundred thirty-eight.

Measles	32
Typhoid fever	10
Whooping cough	22
Scarlet fever	26
Diphtheria	40
Tuberculosis	1
Smallpox	1
Chicken pox	5
Membraneous croup	1

Deaths registered in the City of Melrose for the year ending Dec. 31, 1903:

Total number of deaths from all causes, exclusive of still births	199
Number of still births	10
Males	92
Females	107

DEATHS BY AGES.

(STILL-BIRTHS EXCLUDED)

Deaths of Persons	Total	Males	Females
Under one year.....	21	16	5
From one to two years.....	6	3	3
“ two to three “	5	2	3
“ three to four “	1	1	...
“ four to five “	1	1	...
“ five to ten “	5	4	1
“ ten to fifteen “ .....	...	...	...
“ fifteen to twenty years.....	10	5	5
“ twenty to thirty “	13	5	8
“ thirty to forty “	21	9	12
“ forty to fifty “	19	7	12
“ fifty to sixty “	18	7	11
“ sixty to seventy “	21	11	10
“ seventy to eighty “	34	14	20
Over eighty.....	24	7	17
Total.....	199	92	107

DEATHS BY MONTHS.

(STILL-BIRTHS EXCLUDED)

Deaths in		Deaths in	
January	12	July	12
February	15	August	11
March.....	23	September	14
April	17	October	19
May	17	November	17
June	20	December	22

CAUSES OF DEATHS

(STILL-BIRTHS EXCLUDED)

Phthisis, or consumption....	18	Bronchitis	3
Smallpox	4	Diseases of the heart.....	17
Measles	0	Diseases of the brain and	
Scarlet fever.....	1	spinal cord.....	21
Diphtheria	1	Diseases of the kidneys.....	8
Whooping cough.....	2	Cancer.....	10
Typhoid fever.....	1	Suicide.....	2
Erysipelas.....	2	Accident	5
Influenza.....	4	Unknown or ill-defined causes	12
Cholera infantum.....	2	All other causes not specified	
Diarrhoea and cholera morbus.	3	above (not including still-	
Pneumonia	16	births)	67
Total.....			199

Disinfections January 1, 1903, to January 1, 1904 III

On account of :

Scarlet fever	17
Tuberculosis	22
Diphtheria	42
Smallpox	2
Typhoid	1
Measles	2
Cancer	1
Books	3
Melrose Hospital	5
Sunnyside Hospital	1
Hack	1
Schools	4
Miscellaneous	10

III

Permits granted to pedlers	40
Permits granted to clean cesspools	122
Licenses to board infants approved	6
Animals buried	30
Culture tubes delivered	77

All complaints of nuisances received at the office have been carefully investigated and the nuisance abated as far

as possible under the efficient supervision of Mr. John T. Barker as inspector.

Whole number of nuisances inspected	130
Complaints of overflowing cesspools	59
Defective sanitary arrangements	9
Defective drains	2
No running water	3
General uncleanness	1
Rubbish	14
Hens	9
Offensive privies	7
Complaints of water in cellar	1
" " dirty back yard	1
" " stagnant water	3
" " obstructed brooks	4
" " wet land	1
" " leak in service box	1
" " decayed fruit	1
" " offensive garbage	1
" no nuisance found	13

130

Only fourteen garbage complaints were received during the entire year, Mr. Geo. W. Higgins as contractor covering the city satisfactorily to the residents. In December the contract was awarded to Mr. Robert Philpot for the ensuing year.

Respectfully submitted,
 PAUL H. PROVANDIE, Chairman.
 JOHN T. TIMLIN,
 J. H. ROBINSON.

Report of the Inspector of Plumbing.

To the Honorable Board of Health, Melrose, Mass.:

GENTLEMEN: Below you will find a copy of my annual report as Inspector of Plumbing for the year 1903.

Number of applications received	264
Number of permits granted	264
For sewer connections	90
Cesspool connections	10
Alterations and repairs	79
Ventilation (only)	7
Additional fixtures	78
	— 264
Number of new buildings 28 (stables 3.)	
Total number of fixtures installed	503
Wash bowls	104
Bath tubs	85
Water closets	128
Sinks	80
Wash trays	74
Urinals	2
Ice chests	2
Watering troughs	2
Washing stands for carriages	2
New traps installed on repairs	13
Horse stalls	11

— 503

Respectfully submitted,

JOHN T. BARKER,

Inspector of Plumbing.

Report of Inspector of Milk and Vinegar.

1903-1904.

The past year 50 samples of milk have been analyzed and of these 8 were slightly under the percentage required by state law. This is a much better showing than the year before, when a large number of the milkmen had to be warned, because their milk was below the standard.

The milk from the dairies about Melrose, Stoneham, Saugus and Reading, which comes to Melrose, is of excellent quality and considerably above the requirements of the law.

The milk which comes from the milk contractors (or railroad milk, so called), does not stand much above the percentage required by the law, and many times it is below the standard. The public should take pains to assist the inspector of milk when there is trouble and the milk is running bad.

The vinegar which is sold in the stores of Melrose is of good quality, only one sample of bad vinegar being found.

WILLIAM S. BRIRY,
Inspector of Milk.

Melrose, Mass.

Report of City Treasurer

FOR THE FINANCIAL YEAR ENDING JANUARY 31, 1904.

*To the Honorable the Mayor and the Board of Aldermen of the
City of Melrose:*

GENTLEMEN: I have the honor to submit herewith my
annual report for the financial year ending January 31, 1904.

Yours respectfully,

W. R. LAVENDER,
City Treasurer.

Cash in treasury, Feb. 1, 1903 . . .	\$17,484 34	
Total receipts for year . . .	709,246 73	
	<hr/>	\$726,731 07
Total disbursements for year . . .		\$719,466 01
		<hr/>
Balance, Cash in treasury Feb. 1, 1904,		\$7,265 06

CEMETERY TRUST FUNDS.

Amt. to credit of fund Feb. 1, 1903,		\$8,984 00
Received during the year as follows:		
Mrs. Ann E. Merrill	\$135 00	
Estate Thomas Long	125 00	
Jessie U. Jones	113 50	
Mrs. William Grundy	67 50	
Francis W. Hunt	200 00	
Estate Thomas J. Sweetser	100 00	
George W. Babb	250 00	
Hannah G. Simonds	100 00	
Charles E. Baker	172 00	
Peter Batchelder	90 00	
Arthur H. Thorndike	113 50	
	<hr/>	\$1,466 50
		<hr/>
Amount to credit of fund, Feb 1, 1904,		\$10,450 50

E. TOOTHAKER FUND.

Amt. to credit of fund, Feb. 1, 1903,	\$1,327	10
Received during the year as follows:		
City of Melrose, int. to Feb. 1, 1904,	47	23
	<hr/>	\$1,374 33
Payments during the year		146 33
		<hr/>
Amt. to credit of fund, Feb. 1, 1904,		\$1,228 00

SPECIAL FUND

For Celebration of 100th Anniversary of Town of Melrose.

Amt. deposited in Melrose Savings	
Bank, Feb. 1, 1904	\$21 37

WILLIAM R. LAVENDER, City Treasurer,

In account with CITY OF MELROSE,

For the Financial Year ending January 31, 1904.

DR. .

Cash in Treasury, Feb. 1st, 1903	\$17,484 34
--------------------------------------------	-------------

RECEIPTS FOR YEAR AS FOLLOWS:

J. W. Murray, collector, taxes	1899	\$22 86
" " "	1900	304 50
" " "	1901	8,350 37
" " "	1902	91,924 34
" " "	1903	158,413 03
" " sewer ass'm'ts	10,834 78	
" " tax title, 1898	315 46	
" " " "	1899	523 79
" " " "	1900	749 31
" " " "	1901	2,505 00

Amounts carried forward	\$273,943 44	\$17,484 34
-----------------------------------	--------------	-------------

Amounts brought forward	\$273,943 44	\$17,484 34
J. W. Murray, collector, street sprinkling, 1901	213 87	
J. W. Murray, collector, street sprinkling, 1902	1,521 60	
J. W. Murray, collector, street sprinkling, 1903	2,141 67	
J. W. Murray, collector, water rates 1902	1,020 91	
J. W. Murray, collector, water rates 1903	45,657 91	
J. W. Murray, collector, water rates 1904	4,402 37	
J. W. Murray, collector, water summons	93 00	
J. W. Murray, collector, excise tax Cemetery	1,622 64	
Cemetery trust funds	5,321 14	
Charity Dept., aid of poor	1,466 50	
City ambulance fund	3,729 77	
	52 55	
Commonwealth of Massachusetts:		
State aid	\$2,527 50	
Military aid	237 73	
Soldiers' relief	154 00	
Soldiers' burial	105 00	
	<hr/>	3,024 23
Contingent, city clerk's	400 00	
" collector's	763 47	
E. Toothaker fund	47 23	
Fire Dept., hay, staw and oats . .	187 79	
Health Dept., prevention contagious disease	90 83	
History of Melrose	200 00	
Interest, J. W. Murray, collector, taxes	\$7,009 24	
Tax titles	565 32	
Other sources	2,601 56	
	<hr/>	10,176 12
Amounts carried forward	\$356,077 04	\$17,484 34

Amounts brought forward	\$356,077 04	\$17,484 34
Insurance, rebate of premium . . .	5 00	
Municipal debt, J. W. Murray, collector:		
Non-resident bank tax	\$815 76	
Commonwealth of Mass.:		
Corporation tax . . .	9,270 96	
National Bank tax . . .	2,247 22	
St. Ry. tax . . .	1,596 71	
	<hr/>	13,930 65
Permanent loans	28,000 00	
Public library building	26,595 75	
Public works department:		
Brown tail and gypsy moth extermination	111 98	
Highway division	4,742 15	
Sewer division, construction . . .	2,601 62	
“ “ private sewers	2,061 72	
Sidewalks, new individual	1,124 99	
“ “ new continuous:		
J. W. Murray, coll., . . .	\$496.63	
Other sources	39.39	
	<hr/>	536 02
Surface drainage	1,256 75	
Water division, maintenance . . .	16,332 68	
School department, contingent . . .	1,259 50	
Soldiers' relief	368 34	
Surface drainage bonds	40,000 00	
Surface drainage loan sinking fund premium on bonds	3,696 00	
Temporary loans	181,267 20	
Treasury	1,869 29	
Water department Commonwealth Mass.		
acct. water	293 38	
Accrued interest on water bonds . .	666 67	
Water bonds	25,000 00	
Water loan sinking fund, premium on bonds	1,450 00	709,246 73
	<hr/>	
Amount carried forward		\$726,731 07

Amount brought forward . . . \$726,731 07

CR.

Aldermanic chamber ventilating apparatus	\$325 00
Bonds for city officers	170 00
Cemetery	5,000 00
Charity department, aid of poor	13,226 18
" " clerical assist.,	200 00
" " contingent	61 08
Claims	200 00
Contingent, aldermanic	249 88
" assessors'	600 00
" city clerk's	400 00
" collector's	1,563 47
" election expenses	1,529 22
" general	1,494 25
" inspector milk and vin-egar	25 00
Contingent, mayor's	128 50
" sealer weights and meas-ures	22 00
County tax	13,917 89
E. Toothaker fund	146 33
Fire department, chief engineer	150 00
" " assistant engineer and clerk	125 00
Fire department, assistant engineer	100 00
" " 7 permanent men	5,279 07
" " 24 call men at \$50	1,104 16
" " 20 call men at \$75	1,431 42
" " coal and wood	346 92
" " fire alarm maint.	592 34
" " 4 new fire alarm boxes	494 81
Fire department, hay straw and oats	1,184 95
" " horse for Hose 2 and electrician	250 00

Amounts carried forward, . . . \$50,317 47 \$726,731 07

Amount brought forward	\$50,317 47	\$726,731 0
Fire department horse shoeing	182 55	
" " laundry and new linen	63 14	
Fire department, new boiler, steam fire engine	35 50	
Fire department, new hose	388 24	
" " telephone, gas and electric lighting	220 79	
Fire department, contingent	944 21	
4th of July celebration	448 17	
Health department:		
Clerical service	200 00	
Compulsory vaccination	1,610 40	
Contagious disease, prevention	2,144 88	
Fumigation and disinfection	249 37	
Removal dead animals	25 00	
Removal garbage	960 00	
Salary plumbing inspector	650 00	
Salary sanitary inspector	150 00	
Contingent	493 87	
History of Melrose	625 56	
Insurance	1,184 19	
Interest	35,670 12	
Life saving apparatus Ell and Swains ponds	1 00	
Melrose hospital	1,000 00	
Memorial day	200 00	
Metropolitan park	5,169 59	
Military aid	647 45	
Municipal debt	807 60	
Municipal loans	5,000 00	
Murray, J. W., col. taxes 1899	01	
Old Home Week	100 00	
Permanent loans	25,000 00	
Police department, salaries, chief, regular and special	11,782 53	
Amounts carried forward	\$146,271 64	\$726,731 07

Amounts brought forward	\$146,271 64	\$726,731 07
Police department contingent	516 82	
Public library, books and supplies:	1,625 52	
" " rent and heating	1,200 00	
" " salaries	1,074 84	
Public library building	23,175 18	
Public works department:		
Brown tail and gypsy moth exter.	1,399 06	
Collecting ashes	1,519 84	
City hall, heating	299 29	
" " janitor	736 50	
" " lighting	704 81	
" " contingent	530 76	
Engineering division:		
Salaries:	2,179 20	
Supplies and incidentals	256 36	
Highway division:		
Removing snow and sanding	2,000 00	
General repairs and maintenance	26,084 39	
Granite crossings	500 00	
Parks	92 00	
Public works office:		
Board horse	311 93	
Clerical service	468 00	
Printing, books, etc.,.	274 00	
Telephone	59 14	
Sewer Division:		
Construction	14,718 83	
Maintenance	694 08	
Private sewers	2,002 62	
Sidewalks:		
Repairs present	1,017 58	
New individual	2,790 43	
New continuous	1,327 07	
Street lights	12,452 20	
Street sprinkling	4,352 05	
Surface drainage	22,190 91	

Amounts carried forward

\$272,825 05 \$726,731 07

Amounts brought forward	. \$272,825 05	\$726,731 07
Water division:		
Construction	15,297	56
Maintenance	37,467	77
Refunded taxes	30	76
Sewer tax, abatement of	50	31
Salaries	11,220	83
Sewer tax	10,808	84
School department:		
Teaching and supervision	57,559	33
Janitors	6,004	00
Books and supplies	6,299	38
Fuel	6,699	15
Furniture	821	68
High school and teachers' library	98	60
Printing	350	00
Repairs	3,875	16
Transportation of pupils	527	00
Warren school repairs	747	90
Contingent	1,739	04
Soldiers' burial	70	00
Soldiers' relief	2,424	46
State aid	3,132	00
State tax	10,625	00
Sinking fund commissioners:		
Central fire station and school note fund	1,520	00
Central fire station note fund	800	00
School house note fund	14,444	00
Stone crusher note fund	800	00
Surface drainage loan fund	4,070	40
Town hall fund	3,075	30
Water loan fund	6,671	74
Temporary loans	210,570	53
Tax titles	254	78
Unredeemed real estate unsold, be- came property of city	74	60
Amounts carried forward . . . . .	. \$690,955 17	\$726,731 07

Amounts brought forward	. \$690,955 17	\$726,731 07
Water department	27,895 34	
Wells drain	615 50	
Balance on hand	7,265 06	
	<hr/>	\$726,731 07

Examined and found correct.

EDWIN C. GOULD,

May 21, 1904.

City Auditor.

STATEMENT OF CITY DEBT.

Cemetery Trust Funds	\$10,450 50	
E. Toothaker Fund	1,228 00	
School House Loan Bonds.		
Series 1896, due Feb. 24th, 1916	200,000 00	
Sewer Bonds.		
Series 1897, due June 1, 1907,	\$25,000 00	
" 1897, " June 1, 1912,	25,000 00	
" 1897, " June 1, 1917,	50,000 00	
" 1894, " June 1, 1924,	100,000 00	
" 1895, " June 1, 1925,	100,000 00	
" 1896, " July 1, 1926,	50,000 00	
	<hr/>	\$350,000 00
Town Hall Bonds.		
Series 1892, due Sept. 1, 1912,	45,000 00	
Water Bonds.		
Series 1895, due Nov. 1, 1905,	\$37,000 00	
" 1897, " May 1, 1907,	50,000 00	
" 1892, " May 1, 1912,	25,000 00	
" 1892, " Sept. 1, 1912,	37,000 00	
" 1893, " Oct. 1, 1913,	50,000 00	
" 1903, " Mar. 1, 1918,	25,000 00	
" 1895, " July 1, 1925,	38,000 00	
	<hr/>	\$262,000 00
Amount carried forward		\$868,678 50

Amount brought forward .	\$868,678 50
Surface Drainage Bonds.	
Series 1902, due July 15, 1932, . .	40,000 00

Permanent Loans.

Park Loan Coupon Notes.

Due May 15, 1904, .	\$1,000 00	
" " 15, 1905, .	1,000 00	
" " 15, 1906, .	1,000 00	
" " 15, 1907, .	1,000 00	
" " 15, 1908, .	1,000 00	
" " 15, 1909, .	6,000 00	
	<hr/>	\$11,000 00

Melrose City Drainage Loan, 1st series.

Note due Oct. 30, 1904, .	\$2,000 00	
" " Oct. 30, 1905, .	2,000 00	
" " Oct. 30, 1906, .	2,000 00	
	<hr/>	6,000 00

Central Fire Station and School
House Loan.

Note due Jan. 4, 1905,		
on acct. C. F. Sta. .	\$10,000 00	
" " grading and		
school grounds .	9,000 00	
	<hr/>	19,000 00

Central Fire Station Loans.

Note due Sept. 25, 1904, .	\$5,400 00	
" " Sept. 25, 1904, .	1,100 00	
" " Sept. 25, 1904, .	3,500 00	
" " Dec. 8, 1904, .	10,000 00	
" " Nov. 24, 1904, .	8,000 00	
	<hr/>	28,000 00
		<hr/>
		64,000 00
		<hr/>
		\$972,678 50

Temporary Loans Outstanding:

Massachusetts Universalist conven-		
tion, note due Jan. 26, 1904 .	\$5,000 00	
Trustees public library, demand note	2,000 00	
	<hr/>	
Amount carried forward .	\$7,000 00	

Amount brought forward	\$7,000 00
Loring, Tolman & Tupper, note due Feb. 2, 1904	15,000 00
Loring, Tolman & Tupper, note due Feb. 2, 1904	10,000 00
Massachusetts Universalist conven- tion, note due March 6, 1904	5,000 00
Loring, Tolman & Tupper, note due March 28, 1904	15,000 00
Harriet A. Austin, note due May 22, 1904	7,000 00
Massachusetts Universalist conven- tion, note due May 9, 1904	5,000 00
Warren Institution for Savings, note due June 6, 1904	10,000 00
Annie M. Selee, note due June 9, 1904	3,000 00
Blake Bros. & Co., note due June 17, 1904	10,000 00
Blake Bros. & Co., note due June 17, 1904	5,000 00
Mary C. Graham, executrix, note due July 24, 1904	2,000 00
Warren Institution for Savings, note due Aug. 6, 1904	10,000 00
Elizabeth D. Baker, note due Aug. 27, 1904	1,000 00
Elizabeth D. Baker, note due Oct. 24, 1904	400 00
Massachusetts Universalist conven- tion, note due Oct. 29, 1904	5,000 00
Melissa A. Todd, note due Dec. 21, 1904	3,000 00
	<u>\$113,400 00</u>

972678.50
 113400
 1086078.50

WILLIAM R. LAVENDER, Treasurer,

In account with WATER LOAN SINKING FUND.

DR.

1903		
Feb. 1.	Balance from old acct. .	\$2,130 39
April 9.	Int., dis. @ $4\frac{3}{4}\%$ on \$2,000, being a part of \$10,000 note, Apr. 9, 1903, 6 mos. . . .	47 50
May 6.	Int. 5 coupons 4th water bonds	100 00
	Int. 1 coupon 3d water bonds	20 00
July 8	Int. 10 coupons 9th water bonds	200 00
	Int. 4 coupons 8th water bonds	80 00
July 9	Int. 1 yr. to Apr. 30 on 5 surface drainage notes, each \$2,000, at $3\frac{1}{2}\%$.	350 00
	Int. Apr. 30 to July 9 on 1 surf. drain. note . . .	13 42
	City of Melrose, 1 surf. drain. note, Oct. 20, '01, 1 yr. . . .	2,000 00
Aug. 1.	City of Melrose, part of note Apr. 9, 1903, \$10,000, 6 mos. . . .	2,000 00
Sept. 19.	Int. 2 coupons, Milton bonds	35 00
	Int. 2 coupons Milton bonds, Aug. 1 . . .	35 00
Sept. 21.	Int. Melrose Sav. Bank on deposit	18 72
	Amount carried forward .	\$7,030 03

Amount brought forward . . .		\$7,030 03
Sept. 21.	Int. Melrose Nat. Bank on deposit :	
	Feb. . . . \$.46	
	Mar.76	
	Apr. . . . 1.00	
	Aug. . . . 2.30	
	Sept. . . . 3.11	
	—	7 63
Oct. 21.	Int. City of Melrose, 6 mos. to Sept. 25, on note \$1,100	19 25
	Int. 4 coupons, 8th water bonds	80 00
	Int. 5 [¢] coupons, 4th water bonds	100 00
	Int. 1 coupon, 3d water bonds	20 00
	Int. 6 mos. on 4 surf. drain. notes, each \$2,000 at 3½%	140 00
	City of Melrose, 1 surf. drain. note, Oct. 30, '01, 2 yrs.	2,000 00
	Int. Oct. 30 to Dec. 5, on 1 surf. drain. note, \$2,000	6 80
Dec. 31.	City of Melrose, premium received by city on ten 15 year bonds, sold at 105.80	580 00
	City of Melrose, surplus of water dept., 1902 . .	5,221 74
	City of Melrose, premium received by city on fifteen 15 yr. bonds sold at 105.80	870 00
Amount carried forward . . .		<hr/> \$16,075 45

Amount brought forward		\$16,075 45	
1904			
Jan. 5.	Int. 10 coupons, Jan. '04, 9th water bonds . . .	200 00	
Feb. 20.	Int. 3 coupons, Jan. '04, 1st water bonds . . .	60 00	
	Int. Melrose Sav. Bank, on deposits . . .	19 06	
	Int. Melrose Nat. Bank, on deposits :		
	Sept. . . . \$0 67		
	Oct. . . . 89		
	Nov. . . . 1 22		
	Dec. . . . 8 78		
	Jan. . . . 3 09		
	Feb. . . . 41		
	—	15 06	\$16,369 57

CR.

1903			
April 9.	City of Melrose, part of note, April 9th, 6 mos., \$10,000 . . .	\$2,000 00	
Mar. 10.	W. R. Lavender, one-half of salary, 1 yr. to Feb. 1st . . .	25 00	
May 11.	Boston Safe-D. & T. Co., $\frac{1}{2}$ rent box 1 yr. to May 14th, 1904 . . .	7 50	
Aug. 1.	City of Melrose: For 3 S. Dr. bonds, No. 1, 2, 3, due 1932 at 4 per cent. . . .	3,000 00	
	Premium on 3 S. Dr. bonds, @ 109.24 . . .	277 20	
Amounts carried forward . . .		\$5,309 70	\$16,369 57

Amounts brought forward . . .		\$5,309 70	\$16,369 57
Aug. 1.	Accrued int. on 3 S. Dr. bonds	5 34	
Dec. 23.	Jackson & Curtis:		
	5 4 per cent. St. Louis bonds, due 1905, Nos. 11,372 to 11,376 in- clusive	5,000 00	
	Premium on 5 St. Louis bonds at 100 $\frac{1}{4}$	12 50	
	Accrued int. on 5 St. Louis bonds	15 00	
	City of Melrose:		
	5 water bonds due 1918, Nos. 456 to 460 inc. . . .	5,000 00	
	Premium on 5 water bonds at 105.80	290 00	
	Accrued int. on 5 water bonds	66 67	
	For part of 1 water bond (with C. F. Sta. fund) due 1918, No. 455	200 00	
	All of premium on 1 water bond at 105.80 . . .	58 00	
	All of accrued int. on 1 water bond	13 33	
		<hr/>	15,970 54
	Balance on hand		\$399 03
Deposited as follows:			
	In Melrose National Bank . . .	\$275 06	
	In Melrose Savings Bank	123 97	399 03
		<hr/>	<hr/>

WILLIAM R. LAVENDER, Treasurer.

In account with SEWER LOAN SINKING FUND.

DR.

Balance from old account. . . \$3,572 44

1093

Feb. 1	Interest 6 mos. to Feb. 1 on demand note City of Melrose, Feb. 1, '01, \$3000	52 50
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Feb. 5	Interest 5 coupons Mal- den bonds	100 00
--------	------------------------------------------------	--------

April 9	Interest 4 coupons Wal- tham bonds	80 00
	City of Melrose, dis. on part (\$2000) of \$10,000, note of April 9, 6 mos. @ 4¾ per cent.	47 50

July 7	Interest 5 coupons Fitch- burg R. R. bonds	125 00
	Interest 3 coupons Chi- cago B. & Q. R. R. bonds	52 50

July 8	Interest 10 coupons 4th sewer bonds	200 00
--------	--------------------------------------------------	--------

July 9	Interest City of Melrose 6 mos. to May 15 on six notes as follows:	
	\$1,000 date Nov. 15, '02	21 25
	1,200 " " " "	25 50
	575 " " " "	12 22
	8,000 " " " "	170 00
	10,000 " " " "	212 50
	6,000 " " " "	127 50

Aug. 1	City of Melrose paid for part \$10,000, April 9, 6 mos.	2,000 00
--------	-----------------------------------------------------------------------	----------

Amount carried forward . . . \$6,798 91

	Amount brought forward .	\$6,798 91
Aug. 1.	City of Melrose paid note	
	Feb. 1, 1901, demand .	3,000 00
	City of Melrose paid note	
	Nov. 15, 1902, 1 yr.	10,000 00
	City of Melrose, paid note	
	Nov. 15, 1902, 1 yr. .	1,000 00
	City of Melrose, paid	
	note, Nov. 15, 1902,	
	1 yr.	1,200 00
	City of Melrose, paid note,	
	Nov. 15, 1902, 1 yr. .	575 00
	Interest city of Melrose,	
	February 1 to Aug. 1,	
	on \$3000 demand note	
	3½ per cent. . . .	52 50
	Interest City of Melrose,	
	May 15 to Aug 1 on	
	\$10,000 note, Nov. 15,	
	'02, 4½ per cent . . .	88 54
	Interest City of Melrose,	
	May 15 to Aug 1 on	
	\$1,000 note Nov. 15, '02,	
	4½ per cent. . . .	8 85
	Interest City of Melrose,	
	May 15 to Aug. 1 on	
	\$1,200 note, Nov. 15,	
	'02, 4¼ per cent. . .	10 62
	Interest City of Melrose	
	May 15 to Aug. 1 on	
	\$575 note, Nov. 15 '02	
	4½ per cent. . . .	5 08
Sept. 19	Interest 2 coupons Milton	
	bonds, Feb. 1	35 00
	Interest 2 coupons, Mil-	
	ton bonds, Aug. 1 . .	35 00
	Interest part 1 coupon	
	Milton bond, Feb. 1 .	10 50
	Amount carried forward .	\$22,820 00

Amount brought forward . . .	\$22,820 00
Interest 1 coupon Milton bond, Aug. 1 . . .	10 50
Interest 3 coupons Bos- ton & Lowell R. R., March 1 . . .	60 00
Interest 3 coupons Bos- ton & Lowell R. R., Sep. 1	60 00
Sept. 21. 3 city of Malden bonds	3,000 00
Interest 3 coupons Mal- den bonds . . .	60 00
Sept. 21. Interest Melrose Savings Bank on deposit . . .	1 40
Interest Melrose National Bank on deposit . . . \$2 10	
March	2 49
April	3 47
May	3 66
June	2 37
July	2 45
Aug.	3 37
Sept.	4 58
	<hr/>
	24 49
Oct. 21 City of Melrose paid Park loan note No. 4 . . .	1,000 00
Interest 6 coupons park loan notes	120 00
" 1 coupon " " "	120 00
" on park loan note No. 4, May 15-Oct. 21, at 4 per cent. . . .	17 33
Interest 6 mos. to Sept. 25, on Melrose note \$3,500 at 3½ %	61 25
Interest 6 mos. to July 29, on Mel- rose note \$1,100, at 4 per cent.	22 00
Interest 6 mos. to July 29, on Mel- rose note \$3,513.33 @ 4 per cent.	70 27
	<hr/>
Amount carried forward	\$27,447 24

Amount brought forward,	\$27,447 24
Interest 6 mos. to July 29, on Melrose note \$2,000, at $4\frac{1}{4}$ per cent.	42 50
Interest 6 mos. to July 29, on Melrose note \$1,315 at $4\frac{1}{4}$ per cent.	27 94
Interest 2 coupons Malden bonds	40 00
" 4 " Waltham bonds	80 00
Interest 2 coupons 10th water bonds	40 00
Nov. 29. Interest 6 mos. to Nov. 15, on Melrose note, \$8,000 at $4\frac{1}{4}$ per cent.	170 00
6 mos. to Nov. 15, on Melrose notes, \$6,000 at $4\frac{1}{4}$ per cent.	127 50
Dec. 2. 5 Fitchburg R. R. bonds 1903	5,000 00
Interest 5 coupons F. R. R. bonds	125 00
Dec. 5. Interest 5 coupons park loan notes, Nov.	100 00
Interest 1 coupon park loan note Nov.	120 00
Interest 10 coupons 4th sewer bonds Dec.	200 00
Dec. 31. City of Melrose, dis. on note \$10,000, Dec. 8, 1903, 1 year @ 4.70	441 25
Dec. 31. City of Melrose, note Nov. 15, 1902	8,000 00
" " " " " " "	6,000 00
Interest City of Melrose, Nov. 15, to Dec. 31, on notes \$8,000 and \$6,000	76 02
City of Melrose note due Jan. 29, 1904	1,100 00
City of Melrose note due Jan. 29, 1904	3,513 33
Amount carried forward,	\$52,650 78

Amount brought forward	.	\$52,650 78	
Interest City of Melrose, July 29,			
Dec. 31, on notes \$1,100 and	.		
\$3,513 at 4 per cent.	.	77 91	
Dec. 31. Interest City of Melrose			
July 29 to Dec. 31 on			
Notes \$2,000 and \$1,315			
at 4¼ per cent.	.	69 46	
City of Melrose note due			
Jan. 29	.	2,000 00	
City of Melrose note due			
Jan. 29	.	1,315 00	
Jan. 5, 1904. Interest 3 coupons C. B.			
& Q. R. R. bonds	.	52 50	
Feb. 19. Interest 20 coupons 2d			
surface drainage bonds	.	400 00	
Feb. 20. Interest 17 coupons 1st			
surface drainage bonds	.	340 00	
Interest Melrose Savings			
Bank on deposit	.	1 43	
Interest Melrose Nat'l			
Bank on deposit to			
Sept.	.	\$4 45	
Oct.	.	5 90	
Nov.	.	8 06	
Dec.	.	9 36	
Jan.	.	2 83	
Feb.	.	38	
		30 98	
		<u>556,938 06</u>	
CR.			
April 9, '03. City of Melrose, part of			
\$10,000 note, April 9, 6			
mos.	.	\$2,000 00	
Mar. 10. W. R. Lavender, one-half			
salary, one yr. to Feb. 1,			
'03	.	25 00	
Amounts carried forward		\$2,025 00	\$56,938 06

Amounts brought forward	\$2,025 00	\$56,938 06
May 11. Boston Safe Deposit & Trust Co., ½ rent box 1 yr., to May 14, 1904 .	7 50	
City of Melrose:		
Aug. 1. For 17 surface drainage bonds, 1st issue due '32, Nos. 4-20 inclusive	17,000 00	
Premium on 17 30-yr. surface drainage bonds, at 109.24	1,570 80	
Accrued interest on 17 surface drainage bonds	30 22	
For 2 water bonds 1918, Nos. 438 and 439 .	2,000 00	
Premium on 2 water bonds, @ 105.80	116 00	
Accrued interest on 2 water bonds	33 33	
Dec. 31. For note, Dec. 8, 1903, 1 yr.	10,000 00	
For 20 surface drainage bonds, 2d issue, due '32 Nos. 21-40	20,000 00	
Premium on 20 surface drain. bonds, 109.24,	1,848 00	
Accrued interest on 20 surface drainage bonds	368 89	
For one water bond, 1918, No. 450	1,000 00	
Accrued interest on 1 water bond	13 33	
Premium on 1 water bond, @ 105.80	58 00	
	<hr/>	\$56,071 07
Balance on hand		\$866 99
Deposited as follows:		
In Melrose National Bank	\$823 48	
In Melrose Savings Bank	43 51	
	<hr/>	866 99

W. R. LAVENDER, Treasurer.

In account with SCHOOL HOUSE LOAN SINKING FUND.

DR.

Feb.	Balance from old account	\$392 43
March 25.	City of Melrose, appropriation for 1902 . . .	7,222 00
April 9.	Interest discount on part (\$6,000) of \$10,000 note	
	April 9, 6 mos. . . .	142 50
July 7.	Interest 10 coupons Clinton bonds	175 00
Aug. 1.	City of Melrose part (\$6,000) of note April 9, 6 mos.	6,000 00
Sept. 19.	Interest 2 coupons Milton bonds, Feb. 1	35 00
	Interest 2 coupons Milton bonds, Aug. 1	35 00
	Interest part 1 coupon Milton bond, Feb. 1	7 00
	Interest part 1 coupon Milton bond, Aug. 1	7 00
Sept. 21.	Interest Melrose Savings Bank	3 57
	Interest Melrose Nat'l Bank, to	
	Feb. . . . \$ 26	
	March 14	
	April 7 05	
	May 3 25	
	June 2 11	
	July 2 19	
	Aug. . . . 2 18	
	Sept. . . . 2 95	
		<hr/> 20 13

Amount carried forward	<hr/> \$14,039 63
------------------------	-------------------

	Amount brought forward . . .	\$14,039 63	
Oct. 21.	Interest 6 mos. to Sept. 25, on note March 15, \$5,400 at $3\frac{1}{2}\%$. . .	94 50	
	Interest 7 coupons 10th water bonds . . .	140 00	
Dec. 31.	City of Melrose, appro- priation for 1903 . . .	7,222 00	
	Interest City of Melrose discount on note, Nov. 24, 1 year at 4.70 . . .	338 40	
1904			
Jan. 5.	Interest 10 coupons Clin- ton bonds, Jan. . . .	175 00	
Feb. 20.	Interest Melrose Savings Bank	3 64	
	Interest Melrose Nation- al Bank, to Sept. 30 . . . \$ 55 Oct. 73 Nov. 99 Dec. 78 Jan. 26 Feb. 04		
		<hr/> 3 35	
		<hr/>	\$22,016 52

CR.

1903			
April 9.	City of Melrose, for part of note \$10,000 April 9, 6 mos.	\$6,000 00	
Aug. 1.	City of Melrose, 7 water bonds, 1918, Nos. 440- 446	7,000 00	
	City of Melrose, premium on 7 water bonds, @ 105.80	406 00	
		<hr/>	
	Amounts carried forward . . .	\$13,406 00	\$22,016 52

Amounts brought forward	.	\$13,406 00	\$22,016 52
City of Melrose, accrued int. on 7 water bonds		116 67	
Sept. 4. Throp & Martin, for one- half of ledger	.	50	
Dec. 31. City of Melrose, for note Nov. 24, '03, 1 year	.	8,000 00	
City of Melrose:			
Dec. 31. Part of 1 water bond, 1918, No. 451, (remainder owned by Stone Crusher fund)	.	200 00	
All premium on 1 water bond at 105.80	.	58 00	
All accrued interest on 1 water bond	.	13 33	
		<hr/>	21,794 50
Balance on hand	.		\$222 02
Deposited as follows:			
In Melrose National Bank	.	\$10 38	
In Melrose Savings Bank	.	211 64	
		<hr/>	\$222 02
			<hr/>

WILLIAM R. LAVENDER, Treasurer.

In account with TOWN HALL LOAN SINKING FUND.

DR.

1903			
Mar. 25.	City of Melrose, appro- priation for 1902	.	\$1,537 65
Sept. 21.	Interest, Melrose Nat'l Bank, on deposits to		
	May	.	\$3 21
	June	.	2 09
	July	.	2 15
	Aug.	.	1 93
	Sept.	.	2 60
		<hr/>	11 98
	Amount carried forward	.	\$1,549 63

	Amount brought forward	.	\$1,549 63	
Oct. 21.	Interest, 1 coupon 10th water bond	.	20 00	
Dec. 31.	City of Melrose, appropriation for 1903	.	1,537 65	
1904				
Feb. 26.	Interest, Melrose Nat'l Bank, on deposits to			
	Sept.	.	\$0 43	
	Oct.	.	46	
	Nov.	.	77	
	Dec.	.	59	
	Jan.	.	26	
	Feb.	.	03	
			<u>2 64</u>	
				\$3,109 92

CR.

1903

City of Melrose:

Aug. 1.	For 1 water bond, 1918	.	\$1,000 00	
	Premium on 1 water bond at 105.80	.	58 00	
	Accrued interest on 1 water bond	.	16 67	
Sept. 4.	Thorp & Martin Co., 1/2 of new ledger	.	50	

City of Melrose:

Dec. 31.	For 1 water bond 1918	.	1,000 00	
	Premium on 1 water bond @ 105.80	.	58 00	
	Accrued interest on 1 water bond	.	13 34	
	For part of 1 water bond 1918, (remainder owned by surf. drain. fund)	.	800 00	
	All prem. on 1 water bond	.	58 00	
	All accrued interest on water bond	.	<u>13 33</u>	
				<u>3,017 84</u>

Balance on hand, deposited in
Melrose Nat'l Bank

\$92 08

W. R. LAVENDER, Treasurer.

In account with SURFACE DRAINAGE LOAN SINKING FUND.

DR.

City of Melrose:

Dec. 31.	Premium received on 20		
	30-yr. bonds at 109.24 .	\$1,848 00	
	Appropriation for 1903 .	374 40	
	Premium received on 20		
	30-yr. bonds at 109.24,	1,848 00	
		<u> </u>	\$4,070 40

CR.

City of Melrose:

Dec. 31.	For 3 Melrose water		
	bonds 1918	\$3,000 00	
	For premium on 3 water		
	bonds at 105.80 . . .	174 00	
	For part 1 water bond		
	1918, (remainder owned		
	by Town Hall fund) .	200 00	
	Accrued interest on 3		
	water bonds	40 00	
	For part 1 water bond		
	1918, (remainder owned		
	by C. F. Sta. & Sch.		
	note fund)	650 00	
		<u> </u>	4,064 00
			<u> </u>
	Balance on hand, deposited in		
	Melrose Nat'l Bank . . .		\$6 40

W. R. LAVENDER, Treasurer.

In account with CENTRAL FIRE STATION SINKING FUND.

DR.

1903

Dec. 31.	City of Melrose, appro-		
	priation for 1903 . . .	\$800 00	
		<u> </u>	\$800 00
			<u> </u>
	Amount carried forward . . .		\$800 00

Amount brought forward . . .	\$800 00
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CR.

Dec. 31. City of Melrose, part 1 Melrose water bond 1918, No. 455, (remain- der owned by water fund)	\$800 00
	<hr/>

W. R. LAVENDER, Treasurer.

In account with CENTRAL FIRE STATION AND SCHOOL NOTE
SINKING FUND.

DR.

1903		
Dec. 31. City of Melrose, appro- piation for 1903 . . .	\$1,520 00	
	<hr/>	\$1,520 00

CR.

1903

City of Melrose:

Dec. 31. 1 waterbond, 1918, No. 448	\$1,000 00	
Premium on 1 water bond at 105.80	58 00	
Accrued interest on 1 water bond	13 34	
For part 1 water bond, 1918, No. 462, (remain- der owned by surface drain. fund)	350 00	
All premium on 1 water bond	58 00	
All accrued interest on 1 water bond	13 33	
	<hr/>	1,492 67
		<hr/>

Balance on hand, deposited in Melrose National Bank . . .	\$27 33
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W. R. LAVENDER, Treasurer.

In account with STONE CRUSHER NOTE SINKING FUND.

DR.

1904

Dec. 31.	City of Melrose, appropriation for 1903 . . .	\$800 00	
		<hr/>	\$800 00

CR.

Dec. 31.	City of Melrose, part of 1 water bond, 1918, (remainder owned by sch. fund)	\$800 00	
		<hr/>	\$800 00

I have examined the accounts of W. R. Lavender, Treasurer, and find that they agree with his books as certified to by the Sinking Fund Commissioners.

EDWIN C. GOULD,

May 21, 1904.

City Auditor.

REPORT
OF THE
CITY AUDITOR
OF THE
CITY OF MELROSE.

To His Honor the Mayor and the Board of Aldermen:

GENTLEMEN:—I have the honor to submit herewith a statement of the receipts and expenditures of the City of Melrose, beginning on the first day of February, 1903, and ending of the financial year on the thirty-first day of January, 1904, with a detailed statement of each department, a statement of assets and liabilities, a table showing the funded debt, the dates on which the notes and bonds are payable, together with a schedule of the city property.

Respectfully submitted,

EDWIN C. GOULD,
City Auditor.

City of Melrose, Auditor's office.

FINANCES.

The assessed valuation of the City May 1, 1903, was:

Real estate	\$13,780,625 00
Personal estate, including resident bank stock	1,397,005 00

Total valuation	\$15,177,630 00
Decrease in valuation from May 1, 1902	
to May 1, 1903	187,850 00

Number of dwelling houses May 1, 1903	3,312
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Population	13,641
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Rate of taxation per \$1,000 for 1903,
\$18.00, was divided as follows, viz:

City tax	\$15 87
County tax	65
State tax	43
State Metropolitan park tax	34
State sewerage tax	71

\$18 00

The municipal debt January 31, 1903	\$61,000 00
Increase	28,000 00

Decrease by payments	25,000 00
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Total municipal debt January 31, 1904	\$64,000 00
Total increase for the year	3,000 00

CITY OF MELROSE MUNICIPAL DEBT, JANUARY 31, 1904.

Park loan:

Note due May 15, 1904	\$1,000 00
“ 15, 1905	1,000 00
“ 15, 1906	1,000 00
“ 15, 1907	1,000 00
“ 15, 1908	1,000 00
“ 15, 1909	6,000 00
	<hr/> \$11,000 00

SURFACE DRAINAGE LOANS.

Note due October 30, 1904 . . .	\$2,000 00	
" 30, 1905 . . .	2,000 00	
" 30, 1906 . . .	2,000 00	
	<hr/>	\$6,000 00
Central fire station note due Jan. 4,		
1905	\$10,000 00	
New school building note due Jan. 4,		
1905	6,000 00	
High school grounds note due Jan.		
4, 1905	3,000 00	
	<hr/>	\$19,000 00
Sinking fund commissioners:		
Note due Sept. 25, 1904 . . .		10,000 00
Nov. 24, 1904 . . .		8,000 00
Dec. 8, 1904 . . .		10,000 00
		<hr/>
		\$64,000 00
Less sinking funds		3,093 33
		<hr/>
Total municipal debt, Jan. 31, 1904		\$60,906 67

BONDED DEBT.

CITY HALL DEBT.

Town hall bonds 4% due Sept., 1,		
1912	\$45,000 00	
Less sinking funds	3,066 08	
	<hr/>	\$41,933 92

SCHOOL HOUSE DEBT.

School house bonds 4% due Feb. 24,		
1916	\$200,000 00	
Less sinking funds,	34,663 24	
	<hr/>	\$165,336 76

SEWERAGE DEBT.

Sewer bonds 4%:

Due June 1, 1907	.	.	.	.	\$25,000 00
“ 1, 1912	.	.	.	.	25,000 00
“ 1, 1917	.	.	.	.	50,000 00
“ 1, 1924	.	.	.	.	100,000 00
“ 1, 1925	.	.	.	.	100,000 00
“ 1, 1926	.	.	.	.	50,000 00
					<hr/>
					\$350,000 00
Less sinking funds	.	.	.	.	95,592 38
					<hr/>
					\$254,407 62

SURFACE DRAINAGE DEBT.

Surface drainage bonds 4 per cent.

due July 15, 1932	.	.	.	.	\$40,000 00
Less sinking funds	.	.	.	.	4,030 40
					<hr/>
					\$35,969 60

WATER DEBT.

Water bonds 4 per cent.:

Due Nov. 1, 1905	.	.	.	.	\$37,000 00
May 1, 1907	.	.	.	.	50,000 00
May 1, 1912	.	.	.	.	25,000 00
Sept. 1, 1912	.	.	.	.	37,000 00
Oct. 1, 1913	.	.	.	.	50,000 00
Mar. 1, 1918	.	.	.	.	25,000 00
July 1, 1925	.	.	.	.	38,000 00
					<hr/>
					\$262,000 00
Less sinking funds	.	.	.	.	43,659 95
					<hr/>
					\$218,340 05
					<hr/>
Total bonded debt.	.	.	.	.	\$715,987 95

RECAPITULATION OF THE TOTAL DEBT, JANUARY 31, 1904.

Municipal debt.	.	.	.	.	\$60,906	67
City hall debt	.	.	.	.	41,933	92
School house debt	.	.	.	.	165,336	76
Sewerage debt	.	.	.	.	254,407	62
Surface drainage debt	.	.	.	.	35,969	60
Water debt	.	.	.	.	218,340	05
						<hr/>
						\$776,894 62

DEBT STATEMENT.

Total amount January 31, 1903	.	.	.	.	\$746,497	40
Increase in 1903	.	.	.	.	30,397	22
						<hr/>
						\$776,894 62
Increase in surface drainage debt				\$35,969	60	
“ “ water debt	.	.	.	16,906	68	
						<hr/>
						\$52,876 28
Decrease in City Hall debt	.	.	.	\$3,066	08	
“ “ School house debt.	.	.	.	15,474	04	
“ “ Sewerage debt	.	.	.	3,845	61	
“ “ Municipal debt	.	.	.	93	33	
						<hr/>
						\$22,479 06
						<hr/>
Total increase	.	.	.	.	\$30,397	22

CASH ACCOUNT FOR 1903.

Receipts.

Cash on hand January 31, 1903	.	.	.	.	\$17,484	34
Cemetery department	.	.	.	.	\$5,321	14
Charity “	.	.	.	.	3,729	77
City ambulance fund	.	.	.	.	52	55
Collector's contingent	.	.	.	.	763	47
Commonwealth of Massachusetts					16,954	88

Fire department	\$187 79
Health department	90 83
History of Melrose	200 00
Insurance	5 00
Interest	10,176 12
Loans, permanent	28,000 00
" temporary	181,267 20
Premiums on surface drainage and water bonds	5,146 00
Public library building	26,595 75
Public works department	34,267 69
School department	1,259 50
Sewer assessments	10,834 78
Soldiers' relief	368 34
Surface drainage bonds	40,000 00
Taxes collected	259,015 10
Tax titles collected	4,093 56
Treasury	2,269 29
Trust funds, cemetery	1,466 50
Trust funds, Toothaker	47 23
Water bonds	25,000 00
Water department, income	52,134 24
	<hr/> \$709,246 73
	<hr/>
	\$726,731 07

By payments:

February	\$30,460 01
March	39,969 50
April	51,134 82
May	47,160 90
June	56,398 49
July	52,842 18
August	59,670 17
September	28,596 78
October	51,168 01
November	71,745 14

December	\$153,780 40	
January, 1904	76,539 61	
	<hr/>	
	\$719,466 01	
January 31, 1904, cash on hand	7,265 06	
	<hr/>	\$726,731 07

TREASURY.

Balance, January 31, 1903 \$335 75

Receipts.

Charity department, wood sold	\$99 46	
Fire department, old hose and coupling sold	75 00	
First district court, fines	433 14	
Health department, licenses and fees	82 50	
Health department, half of bill, charity department	33 48	
Health department, Com. of Mass. contagious diseases	254 10	
House of correction, fines	80 00	
Hunter, W. D., city hall rent	649 09	
“ “ “ scales, fees	13 60	
“ “ Upham street school rent	50 00	
Insurance Co. rebates	10 00	
Jones, W. De Haven, city clerk's fees	450 00	
Pierce, W. L., sealer of W. and M. fees	38 92	
	<hr/>	
	\$2,269 29	
Transferred from unexpended balances, 1902	1,178 57	
	<hr/>	3,447 86
		<hr/>
		\$3,783 61

Expended.

Transferred to:

Aldermanic contingent . . .	\$325 00	
City clerk's contingent . . .	400 00	
City hall contingent . . .	25 00	
Elections contingent . . .	330 00	
Health department, contingent .	24 00	
Health department, compulsory vaccination	68 20	
Health department, contagious diseases	676 90	
Street lighting	220 20	
	<hr/>	2,069 30
Balance to 1904		<hr/> \$1,714 31

LEDGER BALANCES, JANUARY 31, 1904.

	DR.	CR.
Bonds for city officers . . .		\$3 00
Cash	\$7,265 06	
Cemetery	7,531 04	
Charity department	1,479 99	
Charity department, contingent		38 92
City ambulance fund . . .		52 55
Commonwealth of Mass. . . .	3,538 23	
Contingents:		
Aldermanic		12
Election,		78
General		205 75
Inspector of buildings . . .		50 00
Mayor's		21 50
Fire department		51 19
New boiler for steamer . . .	35 50	
Health department, disinfection		63
Contingent	119 87	
Contagious diseases . . .	1,377 15	
Insurance		261 83

Interest		\$4,140 49
Military aid	292 45	
Police department		65
Public library		433 68
Public library building		3,725 04
Salaries		29 17
School department		116 80
" " contingent	768 77	
Soldiers' relief		307 40
State aid	284 00	
Taxes uncollected	145,314 01	
Tax titles	4,412 23	
Tax titles, City of Melrose	314 84	
Tax, refunded, sewer assessment	50 31	
Treasury		1,714 31
Trust fund, cemetery		10,450 50
Trust fund, Toothaker		1,228 00
Overlays		4,928 18
Loans temporary		113,400 00
Sewer assessments	48,753 80	
Sewer assessment fund		51,077 01
Deficiencies	255 70	
Public works department:		
City Hall		103 64
Collecting ashes		157 16
Highway division		621 10
Engineering division		664 44
Parks		8 00
Public works office		46 93
Sewer division		3,172 52
Sidewalks		664 00
Street sprinkling	2,904 97	
Surface drainage		19,453 51
Water division fund		6,936 77
Water division construction		400 15
City scales		29 43
Fourth of July celebration		51 83
History of Melrose		129 21
Life saving apparatus		21 73

Permanent debt	\$64,000 00	
School house debt	200,000 00	
Sewer debt	350,000 00	
Water debt	262,000 00	
Surface drainage construction .	40,000 00	
City hall debt	45,000 00	
Central fire station sinking fund commissioners	800 00	
Central fire station and school sinking fund commissioners	1,493 33	
School house loan, sinking fund commissioners	34,663 24	
Sewer loan sinking fund com's .	95,592 38	
Stone crusher sinking fund commissioners	800 00	
Surface drainage sinking fund commissioners	4,030 40	
Town hall sinking fund com- missioners	3,066 08	
Water loan sinking fund com- missioners	43,659 95	
Permanent loans		\$64,000 00
Central fire station sinking fund " " " and school sink- ing fund		800 00
		1,493 33
School house loan sinking fund		34,663 24
Sewer loan sinking fund		95,592 38
Stone crusher sinking fund		800 00
Surface drainage sinking fund .		4,030 40
Town hall sinking fund		3,066 08
Water loan sinking fund		43,659 95
School house bonds		200,000 00
Sewer bonds		350,000 00
Surface drainage bonds		40,000 00
City hall bonds		45,000 00
Water bonds		262,000 00

\$1,369,803 30 \$1,369,803 30

CITY OF MELROSE BALANCE SHEET.

JANUARY 31, 1904.

ASSETS AND LIABILITIES FROM APPROPRIATIONS, 1900 to 1903.

ASSETS.

Cash in treasury		\$7,265 06
Due from cemetery	\$7,531 04	
Charity department	1,479 99	
Commonwealth of Mass.	3,538 23	
Deficiencies	255 70	
Fire department	35 50	
Health department	1,497 02	
Military aid	292 45	
School department	768 77	
State aid	284 00	
Street sprinkling	2,904 97	
Taxes uncollected	145,314 01	
Tax titles	4,412 23	
Tax titles City of Melrose	314 94	
Tax refunded sewer assess- ment	50 31	
	<hr/>	\$168,679 06
		<hr/>
		\$175,944 12

LIABILITIES.

By bonds of city officers	\$3 00
Charity department	38 92
City ambulance fund	52 55
Aldermanic contingent	12
Election contingent	78
General contingent	205 75
Inspector of buildings	50 00
Mayor's contingent	21 50
Fire department	51 19

Health department	\$ 63
History of Melrose	129 21
Insurance	261 83
Interest	4,140 49
Police department	65
Public library	433 68
Public library building	3,725 04
Salaries	29 17
School department	116 80
Soldiers' relief	307 40
Loans temporary	113,400 00
Overlay	4,928 18
Trust fund, cemetery	10,450 50
Trust fund, Toothaker	1,228 00
Treasury	1,714 31
* Fourth of July celebration	51 83
Sewer assessments	2,323 21
Public works department:	
By City hall	103 64
City scales	29 43
Collecting ashes	157 16
Engineering division	664 44
Highway division	621 10
Life saving apparatus	21 73
Parks	8 00
Public works office	46 93
Sewer division	3,172 52
Sidewalks	664 00
Surface drainage	19,453 51
Water division construction	400 15
Water fund	6,936 77
<hr/> \$175,944 12	

CITY OF MELROSE, ASSETS AND LIABILITIES.

ASSETS.

To amount invested in land, buildings, parks and other property	\$784,771 83
To amount invested in sinking fund	184,105 38
To amount invested in sewer system	393,471 48
To amount invested in surface drainage	41,946 82
To amount invested in water system	464,066 28
	<hr/>
	\$1,865,361 79

LIABILITIES.

By total municipal indebtedness	\$972,678 50	
Assets exceed liabilities . . .	892,683 29	
	<hr/>	<hr/>
	\$1,865,361 79	\$1,865,361 79

AUDITOR'S REPORT SHOWING AGGREGATE TRANSACTION IN EACH CITY ACCOUNT.

ACCOUNTS.	Balance from 1902.	Appropriations	Transfers to	Receipts.	Overdrawn 1902.	Transfers from	Expenditures	Unexpended balance.	Overdrawn.
Aldermanic Chamber.....	\$15.60	.....	\$325.60	.....	.....	\$15.60	\$325.00	.....	.....
Cemetery.....	.....	.....	.....	\$5,321.14	.....	.....	\$5,000.00	\$321.14	.....
Charity dept. aid of poor.....	.....	\$8,700.00	146.32	3,729.77	\$683.58	.....	13,372.50	.....	\$1,479.99
Clerical service.....	.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Contingent.....	2.14	100.00	.....	.....	.....	2.14	61.08	38.92	.....
Claims.....	.....	.....	200.00	.....	.....	.....	200.00	.....	.....
Commonwealth of Mass.....	.....	.....	.....	3,024.23	3,024.23	3,538.23	.....	.....	3,538.23
Contingent, aldermanic.....	7.79	250.00	.....	.....	.....	7.79	249.88	.12	.....
City clerk.....	.....	.....	400.00	.....	.....	.....	400.00	.....	.....
Collector.....	.....	800.00	.....	763.47	.....	.....	1,563.47	.....	.....
Election.....	.....	1,200.00	330.00	.....	.....	.....	1,529.22	.78	.....
General.....	7.06	2,000.00	.....	.....	.....	307.06	1,494.25	205.75	.....
Insp. of buildings.....	50.00	50.00	.....	.....	.....	50.00	.....	50.00	.....
Sealer of W. and M.....	.10	22.00	.....	.....	.....	.10	22.00	.....	.....
Mayor's.....	7.58	150.00	.....	.....	.....	7.58	128.50	21.50	.....
Assessors'.....	2.35	600.00	.....	.....	.....	2.35	600.00	.....	.....
Fire dept., chief engineer.....	.....	150.00	.....	.....	.....	.....	150.00	.....	.....
Assistant engineer.....	.....	100.00	.....	.....	.....	.....	100.00	.....	.....
Asst. engineer and clerk.....	.....	125.00	.....	.....	.....	.....	125.00	.....	.....
Permanent drivers.....	.....	5,346.00	.....	.....	.....	65.00	5,279.07	1.93	.....
24 call men.....	.....	1,200.00	.....	.....	.....	95.84	1,104.16	.....	.....
20 call men.....	.....	1,500.00	.....	.....	.....	68.58	1,431.42	.....	.....
Hay, straw and grain.....	.....	1,000.00	.....	187.79	.....	.....	1,184.95	2.84	.....
Coal and wood.....	.....	350.00	.....	.....	.....	.....	346.92	3.08	.....
Horse shoeing.....	.....	200.00	.....	.....	.....	.....	182.55	17.45	.....
Laundry and new linen.....	.....	75.00	.....	.....	.....	.....	63.14	11.86	.....
Fire alarm maintenance.....	.....	500.00	100.00	.....	.....	.....	592.34	7.66	.....

Fire Dept., new hose.....	400.00	.....	.....	.....	11.76	388.24	.....	.....
Elec., gas and telephone.....	225.00	.....	.....	.....	.....	220.79	4.21	.....
Fire alarm boxes.....	525.00	.....	19.81	.....	50.00	494.81	.....	.....
New horse for Hose 2.....	200.00	.....	50.00	.....	.....	250.00	.....	.....
Horse for Hose 3.....	250.00	.....	.....	250.00	.....	.....	.....	.....
Contingent and repairs.....	825.00	.....	141.18	.....	36.07	944.21	2.16	.....
New boiler for steamer.....	.....	.....	.....	.....	.....	35.50	.....	35.50
Health dept., clerical ser.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Collection of garbage.....	960.00	.....	.....	.....	20.00	960.00	.....	.....
Compulsory vaccination.....	1,542.20	.....	68.20	.....	2.21	1,610.40	.....	.....
Contagious diseases.....	.....	.....	676.90	90.83	65	2,144.88	.....	1,377.15
Contingent.....	350.00	.....	24.00	.....	5.99	493.87	.....	119.87
Disinfection.....	200.00	.....	50.00	.....	.....	249.37	.63	.....
Isolation hospital.....	.....	.....	.....	.....	7.69	.....	.....	.....
Inspection of milk.....	25.00	.....	.....	.....	.....	25.00	.....	.....
Removal of dead animals.....	75.00	.....	.....	.....	50.00	25.00	.....	.....
Salary, insp. of plumbing.....	650.00	.....	.....	.....	.....	650.00	.....	.....
Sanitary inspection.....	150.00	.....	.....	.....	.....	150.00	.....	.....
Vaccination.....	200.00	.....	.....	199.15	.85	.....	.....	.....
Insurance.....	1,387.30	.....	.....	5.00	.....	1,184.19	261.83	.....
Interest.....	25,000.00	.....	7,010.09	3,166.88	.85	35,670.12	4,140.49	.....
Melrose Hospital.....	1,000.00	.....	.....	.....	.....	1,000.00	.....	.....
Memorial Day.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Military aid.....	200.00	.....	399.73	.....	98.00	549.45	.....	292.45
Old Home Week.....	.....	.....	100.00	.....	.....	100.00	.....	.....
Police dept., salaries of chief and reg. officers.....	11,772.50	.....	10.03	.....	39.98	11,782.53	.....	.....
Contingent.....	527.50	.....	.....	.....	13.60	516.82	.65	.....
City ambulance fund.....	.....	.....	.....	52.55	.....	.....	52.55	.....
Public library, b'ks and sup.....	675.00	.....	.....	.....	.....	1,625.52	183.52	.....
Salaries.....	1,100.00	.....	.....	.....	.....	1,074.84	25.16	.....
Rent and heating.....	1,225.00	.....	.....	.....	.....	1,200.00	25.00	.....
Moving library.....	200.00	.....	.....	.....	.....	.....	200.00	.....
Public library building.....	304.47	.....	.....	26,595.75	.....	23,175.18	3,725.04	.....

AUDITOR'S REPORT SHOWING AGGREGATE TRANSACTION IN EACH CITY ACCOUNT.—Continued.

ACCOUNTS.	Balance from 1902.	Appropriations	Transfers to	Receipts.	Overdrawn 1902.	Transfers from	Expenditures	Unexpended balance.	Overdrawn
Salaries, auditor.....	\$500.00	.....	.....	.....	.....	\$500.00	.....	.....
Clerk.....	1,200.00	.....	.....	.....	.....	1,200.00	.....	.....
Clerk's assistant.....	750.00	.....	.....	.....	.....	750.00	.....	.....
Collector.....	1,000.00	.....	.....	.....	.....	1,000.00	.....	.....
Treasurer.....	750.00	.....	.....	.....	.....	750.00	.....	.....
Assessors.....	900.00	.....	.....	.....	.....	900.00	.....	.....
Assessors' assistants.....	150.00	.....	.....	.....	.....	150.00	.....	.....
Assessors' clerk.....	850.00	.....	.....	.....	.....	850.00	.....	.....
Engr. and supt. of pub. wks.	2,250.00	.....	.....	.....	.....	2,250.00	.....	.....
Health board.....	300.00	.....	.....	.....	.....	300.00	.....	.....
Overseers of poor.....	400.00	.....	.....	.....	\$25.00	375.00	\$25.00	.....
Mayor.....	500.00	.....	.....	.....	.....	500.00	.....	.....
Insp. of animals and prov.	100.00	.....	.....	.....	8.33	95.83	4.17	.....
“ “ buildings.....	500.00	.....	.....	.....	.....	500.00	.....	.....
“ “ milk and vinegar	100.00	.....	.....	.....	.....	100.00	.....	.....
Solicitor.....	500.00	.....	.....	.....	.....	500.00	.....	.....
Registrars of voters.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Scaler of W. and M.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Agt. mil. and state aid.....	100.00	.....	.....	.....	.....	100.00	.....	.....
Schools, teaching and sup.	58,725.00	.....	.....	.....	1,167.99	57,559.33	33.67	.....
Jailors.....	6,004.00	.....	.....	.....	.....	6,004.00	.....	.....
Books and supplies.....	.05	6,300.00	.....	.....	.....	.05	6,299.38	.62	.....
Fuel.....	11.38	7,000.00	.....	.....	.....	312.23	6,689.15	.....	.....
Repairs.....	.28	3,000.00	\$900.85	.....	.....	.28	3,875.16	25.69	.....
Furniture.....	600.00	225.00	.....	.....	.....	821.68	3.32	.....
Transportation.....	520.00	7.00	.....	.....	.....	527.00	.....	.....
Printing.....	300.00	100.00	.....	.....	50.00	350.00	.....	.....

AUDITOR'S REPORT SHOWING AGGREGATE TRANSACTION IN EACH CITY ACCOUNT.—Continued.

ACCOUNTS.	Balance from 1902.	Appropriations	Transfers to	Receipts.	Overdrawn 1902.	Transfers from	Expenditures	Unexpended balance.	Overdrawn.
Public works dept., parks...	\$63.53	\$100.00	.....	.....	.....	\$63.53	\$92.00	\$8.00	.....
Eng. Div., Salem.....	.....	1,500.00	\$1,300.00	.....	.....	.....	2,179.20	620.80	.....
" contingent....	39.70	300.00	.....	.....	.....	39.70	256.36	43.64	.....
Public Works office:									
Board of horse.....	.....	300.08	11.93	.....	.....	.....	311.93	.....	.....
Clerical service.....	.50	500.00	.....	.....	.....	12.43	468.00	20.07	.....
Telephone.....	22.93	.60	.....	.....	.....	22.93	59.14	.86	.....
Contingent.....	.32	300.00	.....	.....	.....	.32	274.00	26.00	.....
City hall, heating.....	.....	300.00	.....	.....	.....	.....	299.29	.71	.....
Janitor.....	26.50	750.00	.....	.....	.....	32.29	736.50	7.71	.....
Lighting.....	245.00	800.00	.....	.....	.....	245.00	704.81	95.19	.....
Contingent.....	3.08	500.00	30.79	.....	.....	3.08	530.76	.03	.....
Highway division:									
Bridges and culverts....	86.02	.....	.....	.....	.....	86.02	.....	.....	.....
Collecting ashes.....	877.00	800.00	.....	.....	.....	.....	1,519.84	157.16	.....
Granite crossings.....	.77	500.00	.....	.....	.....	.77	500.00	.....	.....
Remov. snow and sand, sts	.....	2,000.00	.....	.....	.....	.....	2,000.00	.....	.....
Stone bounds.....	64.79	.....	.....	.....	.....	.....	.....	64.79	.....
Gen. main. and repairs....	362.99	20,200.00	.....	\$6,304.79	.....	299.96	26,071.51	536.31	.....
Sewer division, construction	3,947.02	.....	11,165.38	2,601.62	.....	.....	14,718.83	2,995.19	.....
Maintenance.....	117.45	800.00	.....	.....	.....	117.45	694.08	105.92	.....
Private sewers.....	12.31	.....	.....	2,061.72	.....	.....	2,002.62	71.41	.....
Sidewalks, repairs.....	18.45	1,000.00	.....	.....	.....	.....	1,017.58	.87	.....
New continuous.....	824.63	500.00	15.00	536.02	.....	.....	1,342.07	533.58	.....
" individual.....	494.99	1,300.00	.....	1,124.99	.....	15.00	2,775.43	129.55	.....
Edgestones, Main st.....	5.98	.....	.....	.....	.....	5.98	.....	.....	.....
Street lights.....	233.13	122.32	220.20	.....	.....	233.13	12,452.20	.....	.....

Street sprinkling.....	.....	3,877.14	2,430.06	.....	4,352.05	.....	\$2,904.97
Surface drainage.....	.....	41,256.75	.....	.....	22,190.01	\$19,453.51	.....
Wells drain.....	.....	.....	.....	.....	615.50	.....	.....
Water division, fund.....	.....	77,134.24	.....	52,656.83	27,895.34	6,936.77	.....
Construction.....	25,000.00	300.00	9,302.29	300.00	15,297.56	400.15	.....
Maintenance.....	21,447.97	16,032.68	.....	.....	37,480.65	.....	.....
City Scales.....	.....	.....	.....	.....	.....	29.43	.....
Dix Pond.....	.50	.....	.....	.50	.....	.....	.....
Brown tail and gypsy moth.....	1.25	111.98	500.00	1.25	1,399.06	.....	.....
City Hall improvement.....	7.10	.....	.....	7.10	.....	.....	.....
Repairs, City Hall basement.....	13.54	.....	.....	13.54	.....	.....	.....
Improvement of Common.....	8.72	.....	.....	8.72	.....	.....	.....
Life saving apparatus.....	22.73	.....	.....	.....	1.00	21.73	.....
	\$201,625.86	\$87,961.27	\$709,246.73	\$48,680.46	\$87,961.27	\$719,466.01	\$441,640.97
	\$281,301.34						\$17,613.51
	201,625.86						719,446.01
	87,961.27						87,961.27
	709,246.73						48,680.46
	17,613.51						
	\$1,297,748.71						\$1,297,748.71

ALDERMANIC CHAMBER.

Balance from 1902	\$15 60
Transfer from treasury	325 00
	<hr/>
	\$340 60

Expended.

Ventilating apparatus	\$325 00	
Transferred to treasury	15 60	
	<hr/>	
	\$340 60	\$340 60

CEMETERY.

Receipts.

Cash for :

Dressing	\$22 00
Foundations	419 12
Grass	10 00
Graves, single	201 00
Interments	660 50
Labor	342 00
Lots, care of	1,837 48
Lots, sold	1,566 00
Markers	39 50
Use of tomb	75 00
Vaults	141 00
Wood	7 54
	<hr/>
	\$5,321 14

Expended.

Books, printing, stamps and telephone	\$65 57
Catch basins, frame and grate	6 25
Cement and lime	42 20
Dressing	102 00
Duck and tent canvas	32 20
Express and freight	10 64
Grass and lawn seed	10 97

Grave and lot markers	\$15 75	
Gravel, loam and sod	270 60	
Hardware and tools	70 30	
Painting building and signs . .	19 07	
Plants and shrubs	83 59	
Repairing and sharpening tools .	27 65	
Repairing water pipes	10 05	
Salary of clerk	44 64	
Salary of committee	100 00	
Sundries ,	3 25	
Water pipes and fittings	104 27	
Pay rolls, Supt., men and teams .	3,979 00	
	<hr/>	\$5,000 00
Receipts exceed expenditures . .		\$321 14

CHARITY DEPARTMENT.

AID OF POOR.

Appropriation		\$8,700 00
Transferred from soldiers' relief .		146 32
Received from:		
Commonwealth of Massachusetts .	\$751 17	
Individuals	710 75	
Farm	955 44	
Boston, city of	533 27	
Cambridge, city of	6 00	
Chelsea, city of	26 00	
Everett, city of	87 00	
Malden, city of	211 15	
Medford, city of	56 98	
Braintree, town of	122 00	
Bridgewater, town of	63 66	
Needham, town of	111 10	
Stoneham, town of	74 25	
Wenham, town of	21 00	
	<hr/>	3,729 77
		\$12,576 09
Less overdraft 1902		683 58
		<hr/>
		\$11,892 51

Expended.

See Overseers of Poor report for details \$13,372 50

Overdraft	\$1,479 99
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	<u> </u>	<u> </u>
	\$13,372 50	\$13,372 50

CLERICAL SERVICES.

Appropriation	\$200 00
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Expended.

See Overseers of Poor report for detail.

	\$200 00
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	<u> </u>	<u> </u>
	\$200 00	\$200 00

CONTINGENT.

Balance 1902	\$2 14
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Appropriation	100 00
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	<u> </u>	\$102 14
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Expended.

See Overseers of Poor report for detail.

	\$61 08
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Transferred to treasury	2 14
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Balance to 1904	38 92
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	<u> </u>	<u> </u>
	\$102 14	\$102 14

CLAIMS.

Transferred from general contingent	\$200 00
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Expended.

Hinchey vs. Melrose and Marshall,
injury

	\$200 00
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	<u> </u>	<u> </u>
	\$200 00	\$200 00

COMMONWEALTH OF MASSACHUSETTS.

Expended.

Transferred to Military aid . . .	\$399 73
Soldiers' burial . . .	70 00
State aid . . .	3,068 50
	<hr/>

Refunded by Commonwealth, Dec.

1904 \$3,538 23

ALDERMEN'S CONTINGENT.

Balance from 1902	\$7 79
Appropriation	250 00
	<hr/>
	\$257 79

Expended.

Advertising, printing, stationery, etc.	\$184 36
Sundries	65 52
	<hr/>
	\$249 88
Transferred to treasury	7 79
Balance to 1904	12
	<hr/>
	\$257 79
	<hr/>
	\$257 79

CITY CLERK'S CONTINGENT.

Transferred from treasury, fees . . . \$400 00

Expended.

Cash expenses	\$116 89
Expressage	5 70
Printing and supplies	78 42
Returns of births and deaths	117 60
Telephone service	54 30
Sundries	27 09
	<hr/>
	\$400 00
	<hr/>
	\$400 00

COLLECTORS' CONTINGENT.

Appropriations	\$800 00	
Cash received, summons, cost of tak-		
ings, etc.	763 47	
	<hr/>	\$1,563 47

Expended.

Cash paid for P. O. stamps	\$135 00	
Clerk's salary	500 00	
Clerical assistance	529 03	
Constable service	6 12	
Printing	132 00	
Stationery and supplies	30 83	
Telephone service	34 79	
Distributing tax bills	60 00	
Adverisising takings	55 20	
Preparing notices of tax takings, etc.,	80 50	
	<hr/>	<hr/>
	\$1,563 47	\$1,563 47

ELECTIONS' CONTINGENT.

Appropriation	\$1,200 00	
Transferred from treasury	330 00	
	<hr/>	\$1,530 00

Expended.

Advertising and printing	\$603 88	
Ballot boxes	56 00	
" " repaired	7 10	
Janitor's service, ward room	25 00	
Labor on voting booths, etc.	37 37	
Meals for registrars of voters and		
officers	23 05	
Officers' services at registrations	9 89	
Pay roll, election officers	527 00	
special police officers	60 00	
Posting notices	54 76	
Rent of ward rooms	105 00	

Sundries	\$9 65	
Supplies for ward rooms	10 52	
	<hr/>	
	\$1,529 22	
Balance to 1904	78	
	<hr/>	
	\$1,530 00	\$1,530 00

GENERAL CONTINGENT.

Balance, 1902	\$7 06	
Appropriation	2,000 00	
	<hr/>	
		\$2,097 06

Expended.

Books, stationery and supplies	\$50 92	
Box rent, car fares and postage	33 06	
Door numbering	12 70	
Expressage	9 10	
Ice for free fountain	36 00	
Labor and stock on Dix pond fence	21 44	
“ “ “ “ vault	43 88	
Miscellaneous	26 22	
Painting flag pole	38 00	
Pay rolls, brush fires	122 85	
Posting notices	20 00	
Printing annual report	613 58	
miscellaneous	94 75	
Returns of births, marriages and deaths	210 70	
Ringling bell	32 00	
Rent of ward room, 1902	35 00	
Telephone service	94 05	
	<hr/>	
	\$1,494 25	
Transferred to claims	200 00	
Old Home week	100 00	
treasury	7 06	
Balance to 1904	205 75	
	<hr/>	
	\$2,007 06	\$2,007 06

INSPECTOR OF BUILDINGS.

Balance 1902	\$50 00	
Appropriation	50 00	
	<hr/>	\$100 00

Expended.

Transferred to treasury	\$50 00	
Balance to 1904	50 00	
	<hr/>	<hr/>
	\$100 00	\$100 00

SEALER OF WEIGHTS AND MEASURES.

Balance 1902	\$ 0 10	
Appropriation	22 00	
	<hr/>	\$22 10

Expended.

Posting notices	\$ 2 00	
Printing notices	3 00	
Stamps and tools	17 00	
	<hr/>	
	\$22 00	
Transferred to treasury	10	
	<hr/>	<hr/>
	\$22 10	\$22 10

MAYOR'S CONTINGENT.

Balance 1902	\$ 7 58	
Appropriation	150 00	
	<hr/>	\$157 58

Expended.

Box rent, printing and stationery	\$ 28 50	
Salary, clerk	100 00	
	<hr/>	
	\$128 50	
Transferred to treasury	7 58	
Balance to 1904	21 50	
	<hr/>	<hr/>
	\$157 58	\$157 58

ASSESSORS' CONTINGENT.

Balance 1902	\$ 2 35	
Appropriation	600 00	
	<hr/>	\$602 35
Expended.		
Abstracts of deeds	\$ 82 00	
Advertising and printing	88 30	
Cash, record books and cards	9 51	
Constable services	26 75	
Posting notices	1 50	
Printing assessed poll books	209 30	
Repairs to safe	25 00	
Sundry office expenses	62 14	
Use of team	75 00	
Witness fees, Page vs. Melrose	20 50	
	<hr/>	
	\$600 00	
Transferred to Treasury	2 35	
	<hr/>	
	\$602 35	\$602 35

FIRE DEPARTMENT.

CHIEF ENGINEER.

Appropriation		\$150 00
Expended.		
Salary	\$150 00	
	<hr/>	
	\$150 00	\$150 00

ASSISTANT ENGINEER.

Appropriation		\$100 00
Expended.		
Salary	\$100 00	
	<hr/>	
	\$100 00	\$100 00

ASSISTANT ENGINEER AND CLERK.

Appropriation		\$125 00
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Expended.

Salary	\$125 00	
							<u>\$125 00</u>	<u>\$125 00</u>

PERMANENT DRIVERS.

Appropriation		\$5,346 00
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Expended.

Pay rolls	\$5,279 07	
Transferred to contingent	65 00	
Balance to 1904	1 93	
							<u>\$5,346 00</u>	<u>\$5,346 00</u>

TWENTY-FOUR CALL MEN.

Appropriation		\$1,200 00
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Expended.

Pay rolls	\$1,104 16	
Transferred to fire alarm	50 00	
contingent	45 84	
							<u>\$1,200 00</u>	<u>\$1,200 00</u>

TWENTY CALL MEN.

Appropriation		\$1,500 00
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Expended.

Pay rolls	\$1,431 42	
Transferred to fire alarm	50 00	
contingent	18 58	
							<u>\$1,500 00</u>	<u>\$1,500 00</u>

HAY, STRAW AND GRAIN.

Appropriation	.	.	.	.	.	\$ 1,000 00
Receipts	.	.	,	.	.	187 79
						<u>—————</u> \$1,187 79

Expended.

Bills paid	\$1,184 95	
Balance to 1904	2 84	
	<hr/>	
	\$1,187 79	\$1,187 79

COAL AND WOOD.

Appropriation	\$350 00
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Expended.

Bills paid	\$346	92		
Balance to 1904	3	08		
							\$350	00	\$350	00

HORSE SHOEING.

Appropriation	\$200 00
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Expended.

Bills paid	\$182	55		
Balance to 1904	17	45		
							\$200	00	\$200	00

LAUNDRY AND NEW LINEN.

Appropriation	\$75 00
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Expended.

Bills paid	\$63 14
Balance to 1904	11 86
						<hr/>
						\$75 00
						<hr/>
						\$75 00

FIRE ALARM MAINTENANCE.

Appropriation	\$500 00	
Transferred from call men,	100 00	
	<hr/>	\$600 00

Expended.

Beverly wagon	\$110 00	
Express and freight	3 30	
Harness	30 00	
Instruments	156 00	
Labor, care of system	100 00	
Miscellaneous	20 56	
Stock and Labor	69 16	
Supplies	92 07	
Use of horse and wagon	11 25	
	<hr/>	
	\$592 34	
Balance to 1904	7 66	
	<hr/>	
	\$600 00	\$600 00

NEW HOSE.

Appropriation	\$400 00
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Expended.

Bills paid	\$388 24	
Transferred to contingent	11 76	
	<hr/>	
	\$400 00	\$400 00

ELECTRIC LIGHT, GAS AND TELEPHONE.

Appropriation	\$225 00
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Expended.

Electric lights	\$33 31	
Gas lights	108 84	
Telephone services	78 64	
	<hr/>	
	\$220 79	
Balance to 1904	4 21	
	<hr/>	
	\$225 00	\$225 00

FIRE ALARM BOXES.

Appropriation	\$525 00	
Transferred from contingent	19 81	
	<hr/>	\$544 81
Expended.		
Boxes	\$340 00	
Expressage	40	
Labor	20 86	
Supplies	124 40	
Use of horse and wagon	9 15	
	<hr/>	\$494 81
Transferred to new horse	50 00	
	<hr/>	<hr/>
	\$544 81	\$544 81

NEW HORSE FOR HOSE NO. 2.

Appropriation	\$200 00	
Transferred from fire alarm boxes	50 00	
	<hr/>	\$250 00

Expended.

Bills paid	\$250 00	\$250 00
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HORSE FOR HOSE NO. 3.

Appropriation	\$250 00
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Expended.

Overdraft, 1902	\$250 00	
	<hr/>	<hr/>
	\$2500 00	\$250 00

CONTINGENT AND REPAIRS.

Balance, 1902	\$16 26	
Appropriation	825 00	
Transferred from permanent men	65 00	
call men	64 42	
new hose	11 76	
	<hr/>	\$982 44

Expended.

Brass rails and tube	\$22 57	
Fire alarm box	75 00	
Expressage	24 61	
Extinguishers and nozel	116 00	
Horse hire	9 00	
Miscellaneous	29 84	
Printing	55 50	
Repairs	114 59	
Stock and labor	130 46	
Supplies	143 96	
Repairs on steamer	222 68	
	<hr/>	
	\$944 21	
Transferred to new fire alarm boxes	19 81	
treasury	16 26	
Balance to 1904	2 16	
	<hr/>	
	\$982 44	\$982 44

NEW BOILER FOR STEAMER.

Expended.

Advertising	\$3 50
Freight	32 00
	<hr/>
	\$35 50

Treasurer authorized to borrow \$1350.

HEALTH DEPARTMENT.

CLERICAL SERVICES.

Appropriation	\$200 00
Expended.	
Salary clerk	\$200 00
	<hr/>
	\$200 00
	<hr/>
	\$200 00

COLLECTING GARBAGE.

Balance, 1902	.	.	.	.	.	\$20 00	
Appropriation	.	.	.	.	.	960 00	
						<u> </u>	\$980 00

Expended.

Bills paid contract	.	.	.	.	.	\$960 00	
Transferred to treasury	.	.	.	.	.	20 00	
						<u> </u>	<u> </u>
						\$980 00	\$980 00

COMPULSORY VACCINATION.

Balance, 1902	.	.	.	.	.	\$2 21	
Appropriation	.	.	.	.	.	1,542 20	
Transferred from treasury	.	.	.	.	.	68 20	
						<u> </u>	\$1,612 61

Expended.

Carriages for nurses	.	.	.	.	.	\$69 00	
Medicines, points, etc.	.	.	.	.	.	164 65	
Medical services	.	.	.	.	.	1,376 75	
						<u> </u>	
						\$1,610 40	
Transferred to treasury	.	.	.	.	.	2 21	
						<u> </u>	<u> </u>
						\$1,612 61	\$1,612 61

CONTAGIOUS DISEASES.

Balance from 1902	.	.	.	.	.	\$ 0 65	
Transfer from treasury	.	.	.	.	.	676 90	
Cash from Com. of Mass.	.	.	.	.	.	90 83	
						<u> </u>	\$768 38

Expended.

Food	.	.	.	.	.	\$232 74	
Fuel	.	.	.	.	.	105 94	
Furniture bedding, etc	.	.	.	.	.	49 70	
Grading grounds	.	.	.	.	.	25 00	
Hack hire	.	.	.	.	.	129 50	

Medical attendance	\$9 00	
Medicine, etc.	302 35	
Miscellaneous	19 00	
Nurses' services	1,067 84	
Quarantine officers' services	63 28	
Stock and labor	8 78	
Supplies	93 56	
Telephone service	38 19	
	<hr/>	
	\$2,144 88	
Transferred to treasury	65	
Overdraft		\$1,377 15
	<hr/>	<hr/>
	\$2,145 53	\$2,145 53

CONTINGENT.

Balance 1902	\$5 99	
Appropriation	350 00	
Transferred from treasury	24 00	
	<hr/>	\$379 99

Expended.

Advertising and printing	\$97 73	
Books and supplies	115 98	
Collecting ashes	77 00	
Examination of culture	26 00	
Expressage	13 90	
Horse and buggy	24 00	
Medicines	14 99	
Miscellaneous	90 15	
Telephone services	34 12	
	<hr/>	
	\$493 87	
Transferred to treasury	5 99	
Overdraft to be refunded		119 87
	<hr/>	<hr/>
	\$499 86	\$499 86

DISINFECTION.

Appropriation	\$200 00	
Transferred from dead animals . .	50 00	
	<hr/>	\$250 00

Expended.

Bills paid	\$249 37	
Balance to 1904	63	
	<hr/>	<hr/>
	\$250 00	\$250 00

ISOLATION HOSPITAL.

Balance 1902		\$7 69
------------------------	--	--------

Expended.

Transferred to treasury	\$7 69	
	<hr/>	<hr/>
	\$7 69	\$7 69

INSPECTION OF MILK.

Appropriation		\$25 00
-------------------------	--	---------

Expended.

Bills paid	\$25 00	
	<hr/>	<hr/>
	\$25 00	\$25 00

REMOVAL OF DEAD ANIMALS.

Appropriation		\$75 00
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Expended.

Bills paid	\$25 00	
Transferred to disinfection	50 00	
	<hr/>	<hr/>
	\$75 00	\$75 00

SALARY INSPECTOR OF PLUMBING.

Appropriation		\$650 00
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Expended.

Salary	\$650 00	
	<hr/>	<hr/>
	\$650 00	\$650 00

CITY OF MELROSE

SANITARY INSPECTION.

Appropriation		\$150 00
Expended.		
Bills	\$150 00	
	<hr/>	<hr/>
	\$150 00	\$150 00

VACCINATION.

Appropriation		\$200 00
Expended.		
Over draft 1902	\$199 15	
Transferred to treasury	85	
	<hr/>	<hr/>
	\$200 00	\$200 00

INSURANCE.

Balance from 1902	\$53 77	
Appropriation	1,387 30	
Cash rebate	5 00	
	<hr/>	\$1,446 02

Expended.

Premium paid	\$1,184 19	
Balance to 1904	261 83	
	<hr/>	<hr/>
	\$1,446 02	\$1,446 02

INTEREST.

Balance for 1902	\$4,634 49	
Appropriation	25,000 00	
	<hr/>	\$29,634 49

Receipts.

Deposits Melrose National Bank	\$472 78
Sewer assessments	2,585 73
Tax titles	565 32

Taxes	\$4,424 36	
Accrued interest on surface drainage bonds	2,004 45	
Notes, etc.	124 33	
	<hr/>	\$10,176 97
		<hr/>
		\$39,811 46

Expended.

Coupons school house loan	\$8,040 00	
Sewer loan	13,860 00	
Surface drainage	2,400 00	
Town hall	1,820 00	
Sundry notes	9,114 64	
Trust funds	435 48	
Taxes	85	
	<hr/>	\$35,670 97
Balance to 1904	4,140 49	
	<hr/>	<hr/>
	\$39,811 46	\$39,811 46

MELROSE HOSPITAL.

Appropriation	\$1,000 00
-------------------------	------------

Expended.

Bills paid	\$1,000 00	
	<hr/>	<hr/>
	\$1,000 00	\$1,000 00

MEMORIAL DAY.

Appropriation	\$200 00
-------------------------	----------

Expended.

Paid U. S. Grant Post 4 G. A. R.	\$200 00	
	<hr/>	<hr/>
	\$200 00	\$200 00

MILITARY AID.

Appropriation	\$200 00	
Transferred from Com. of Mass. . .	399 73	
	<hr/>	\$599 73

Expended.

Pay rolls	\$549 45	
Transferred to soldiers' relief . .	98 00	
Overdraft 1902	244 73	
" 1903		292 45
	<hr/>	<hr/>
	\$892 18	\$892 18

OLD HOME WEEK.

Transferred from general contingent	\$100 00
-------------------------------------	----------

Expended.

Bill paid	\$100 00	
	<hr/>	<hr/>
	\$100 00	\$100 00

POLICE DEPARTMENT.

SALARY OF CHIEF AND REGULAR OFFICERS.

Balance from 1902	\$ 39 98	
Appropriations	11,772 50	
Transferred from contingent . . .	10 03	
	<hr/>	\$11,822 51

Expended.

Pay rolls	\$11,782 53	
Transferred to treasury	39 98	
	<hr/>	<hr/>
	\$11,822 51	\$11,822 51

CONTINGENT.

Balance from 1902	\$3 57	
Appropriation	527 50	
	<hr/>	\$531 07

Expended.

Board and care of horse	\$285 75	
Care of lockup	25 00	
Cash expenses	33 91	
Legal services	15 00	
Meals furnished persons	6 30	
Medical attendance	25 00	
Miscellaneous	67 38	
Printing and office supplies	22 23	
Telephone services	36 25	
	<hr/>	\$516 82
Transferred to salaries	10 03	
Transferred to treasury	3 57	
Balance to 1904	65	
	<hr/>	<hr/>
	\$531 07	\$531 07

CITY AMBULANCE FUND.

Cash received for use of ambulance	\$52 55
----------------------------------------------	---------

PUBLIC LIBRARY.

BOOKS AND SUPPLIES.

Balance from 1902	\$1,134 04	
Appropriation	675 00	
	<hr/>	\$1,809 04

Expended.

Books and supplies	\$1,625 52	
Balance to 1904	183 52	
	<hr/>	<hr/>
	\$1,809 04	\$1,809 04

SALARIES.

Appropriation	\$1,100 00
-------------------------	------------

Expended.

Pay rolls	\$1,074 84
Balance to 1904	25 16
	<hr/>
	\$1,100 00
	<hr/>
	\$1,100 00

RENT AND HEATING.

Appropriation	\$1,225 00
-------------------------	------------

Expended.

Rent as per lease.	\$1,200 00
Balance	25 00
	<hr/>
	\$1,225 00
	<hr/>
	\$1,225 00

MOVING LIBRARY.

Appropriation	\$200 00
-------------------------	----------

PUBLIC LIBRARY BUILDING.

Balance 1902	\$304 47
Cash received from	
Andrew Carnegie	21,600 00
Subscriptions	4,995 75
	<hr/>
	\$26,900 22

Expended.

Architect, services	\$298 00
Builder, contract	21,600 00
Book lift	175 00
Bronze registers	108 75
Carved pediments	286 00
Expense laying corner stone	23 25
Filling, sand, etc.	25 00
Fuel	76 45
Labor	15 75

Lumber	\$15 41	
Painting, etc.	300 00	
Sundries	72 77	
Wedgewood plates	178 80	
	<hr/>	
	\$23,175 18	
Balance to 1904	\$3,725 04	
	<hr/>	
	\$26,900 22	\$26,990 22

SALARIES.

Balance from 1902	\$ 33 33	
Appropriation	11,250 00	
	<hr/>	
		\$11,283 33

Expended.

Auditor	\$ 500 00	
City clerk	1,200 00	
Assistant city clerk	750 00	
Collector	1,000 00	
Treasurer	750 00	
Assessors	900 00	
" assistants	150 00	
" clerk	850 00	
Engineer and supt. of public works	2,250 00	
Board of health	300 00	
Overseers of poor	375 00	
Mayor	500 00	
Inspector of buildings	500 00	
" " milk and vinegar	95 83	
" " animals and provisions	100 00	
City solicitor	500 00	
Registrars of voters	200 00	
Sealer of weights and measures	200 00	
Agent military and state aid	100 00	
	<hr/>	
	\$11,220 83	
Transferred to treasury	33 33	
Balance to 1904	29 17	
	<hr/>	
	\$11,283 33	\$11,283 33

SCHOOL DEPARTMENT.

TEACHING AND SUPERVISION.

Balance from 1903	.	.	.	\$	35	99
Appropriation	.	.	.	.	58,725	00
					—————	\$58,760 99

Expended.

Pay rolls	\$57,559 33	
Transferred to advertising and printing	100 00	
Furniture	225 00	
Repairs	600 00	
Transportation	7 00	
Contingent	200 00	
Treasury	35 99	
Balance to 1904	33 67	
	<hr/>	
	\$58,760 99	\$58,760 99

IANITORS.

Appropriations	\$ 6,004 00
--------------------------	-------------

Expended.

Pay rolls	\$6,004 00
	\$6,004 00 \$6,004 00

BOOKS AND SUPPLIES.

Balance, 1902	. . . . .	\$0 05
Appropriation	. . . . .	6,300 00
		<u> </u> \$6,300 05

Expended.

Bills paid	\$6,299	38	
Transferred to treasury		05	
Balance to 1904		62	
	<u>\$6,300</u>	<u>05</u>	<u>\$6,300 05</u>

FUEL.

Balance, 1902,	\$ 11 38	
Appropriation	7,000 00	
	<hr/>	\$7,011 38

Expended.

Bills paid	\$6,699 15	
Transferred to repairs	300 85	
Transferred to treasury	11 38	
	<hr/>	<hr/>
	\$7,011 38	\$7,011 38

REPAIRS.

Balance 1902	\$ 0 28	
Appropriations	3,000 00	
Transferred from teachers and super- vision	600 00	
Repairs	300 85	
	<hr/>	\$3,901 13

Expended.

Bill paid	\$3,875 16	
Transferred to treasury	28	
Balance to 1904	25 69	
	<hr/>	<hr/>
	\$3,901 13	\$3,901 13

FURNITURE.

Appropriation	\$600 00	
Transferred from teachers and super- vision	225 00	
	<hr/>	\$825 00

Expended.

Bills paid	\$821 68	
Balance to 1904	3 32	
	<hr/>	<hr/>
	\$825 00	\$825 00

TRANSPORTATION.

Appropriation	\$520 00	
Transferred from teachers and super- vision	7 00	
	<hr/>	\$527 00

Expended.

Bills paid	\$527 00	
	<hr/>	<hr/>
	\$527 00	\$527 00

PRINTING.

Appropriation	\$300 00	
Transferred from teachers and super- vision	100 00	
	<hr/>	\$400 00

Expended.

Bills paid	\$350 00	
Transferred to contingent	50 00	
	<hr/>	<hr/>
	\$400 00	\$400 00

HIGH SCHOOL AND TEACHERS LIBRARY.

Balance from 1902	\$0 15	
Appropriation	100 00	
	<hr/>	\$100 15

Expended.

Bills paid	\$98 60	
Transferred to treasury.	15	
Balance to 1904	1 40	
	<hr/>	<hr/>
	\$100 15	\$100 15

CONTINGENT.

Receipts.

From Tuition	\$1,259 59	
Transferred from teachers and super- visors	200 00	
Transferred from printing	50 00	
	<hr/>	1,509 50

Expended.

Bills paid	\$1,739 04	
Overdraft 1902	539 23	
Overdraft 1903		768 77
	<hr/>	<hr/>
	\$2,278 27	\$2,278 27

WARREN SCHOOL PLUMBING.

Appropriation	\$800 00
-------------------------	----------

Expended.

Bills paid	\$747 90	
Balance to 1904	52 10	
	<hr/>	<hr/>
	\$800 00	\$800 00

SOLDIERS' BURIAL.

Transferred from Commonwealth of Massachusetts	\$70 00
-------------------------------------------------------------	---------

Expended.

Undertaker services	\$70 00	
	<hr/>	<hr/>
	\$70 00	\$70 00

SOLDIERS' RELIEF.

Balance from 1902	\$363 52
Appropriation	2,000 00
Received from city of Gloucester	8 00

Received from town of Stoneham	\$50 00	
Received from town of Wenham	293 09	
Received from Melrose Journal	3 50	
Received from C. E. Mitchell	13 75	
Transferred from military aid	98 00	
	<hr/>	\$2,829 86

Expended.

Aid furnished	\$228 00	
Allowance pay roll	792 00	
Dry goods	23 71	
Food	413 32	
Fuel	230 31	
Medical attendance and medicines	22 70	
Rents	588 00	
Shoes	24 00	
Sundries, supplies, books, stationary, printing, etc.	54 10	
	<hr/>	\$2,376 14
Transferred to charity department	146 32	
Balance to 1904	307 40	
	<hr/>	\$2,829 86
		<hr/>
		\$2,829 86

STATE AID.

Transferred from Commonwealth of Massachusetts	\$3,068 50
-------------------------------------------------------------	------------

Expended.

Pay rolls	\$3,132 00	
Overdraft to 1904		\$63 50
	<hr/>	<hr/>
Refunded by Commonwealth Decem- ber, 1904	\$3,132 00	\$3,132 00

SURETY BONDS.

Balance 1902	\$23 00	
Appropriation	173 00	
	<hr/>	\$196 00

Expended.

Premiums on bonds	\$170 00	
Transferred to treasury	23 00	
Balance to 1904	3 00	
	<hr/>	<hr/>
	\$196 00	\$196 00

COUNTY TAXES.

Amount assessed	\$13,917 89
---------------------------	-------------

Expended.

Paid county treasurer	13,917 89
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STATE TAX.

Amount assessed	10,625 00
---------------------------	-----------

Expended.

Paid state treasurer	10,625 00
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METROPOLITAN PARK TAX.

Amount assessed	5,169 59
---------------------------	----------

Expended.

Paid state treasurer	5,169 59
--------------------------------	----------

STATE SEWERAGE TAX.

Amount assessed	10,808 84
---------------------------	-----------

Expended.

Paid state treasurer	10,808 84
--------------------------------	-----------

DEFICIENCIES REFUNDED BY BANK AND CORPORATION TAXES.

Commonwealth of Mass., bank and		
corporation tax	. . .	\$13,930 65
Appropriation	. . .	3,137 19
		<hr/>
		\$17,067 84
Less overdraft 1902	. .	16,515 94
		<hr/>
		\$551 90

Expended.

National bank tax.	.	.	.	\$807 60	
Balance to 1904	.	.	.	.	255 70
				<u>\$807 60</u>	<u>\$807 60</u>

CENTRAL FIRE STATION NOTE SINKING FUND.

Appropriation	\$800 00
-------------------------	----------

Expended.

Paid to sinking fund commissioners	\$800 00	
	<u> </u>	<u> </u>
	\$800 00	\$800 00

CENTRAL FIRE STATION AND SCHOOL NOTE SINKING FUND.

Appropriation	\$1,520 00
-------------------------	------------

Expended.

Paid sinking fund commissioners	\$1,520 00	
	<u> </u>	<u> </u>
	\$1,520 00	\$1,520 00

SCHOOL HOUSE LOAN SINKING FUND.

Balance 1902	.	.	.	.	\$7,222 00
Appropriation	.	.	.	.	7,222 00
					<u>\$14,444 00</u>

Expended.

Paid to sinking fund commissioners	\$14,444 00	
	<hr/>	
	\$14,444 00	\$14,444 00

TOWN HALL LOAN SINKING FUND.

Balance 1902	. . . . .	\$1,537 65	
Appropriation	. . . . .	1,537 65	
		<hr/>	\$3,075 30

Expended.

Paid to sinking fund commissioners	\$3,075 30	
	<hr/>	
	\$3,075 30	\$3,075 30

STONE CRUSHER NOTE SINKING FUND.

Appropriation	800 00
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Expended.

Paid to sinking fund commissioners	800 00	
	<hr/>	
	\$800 00	\$800 00

SURFACE DRAINAGE LOAN SINKING FUND.

Appropriation	. . . . .	\$374 40	
Premium on bonds	. . . . .	3,696 00	
		<hr/>	\$4,070 40

Expended.

Paid sinking fund commissioners.	4,070 40	
	<hr/>	
	\$4,070 40	\$4,070 40

WATER LOAN SINKING FUND.

Premium on bonds	. . . . .	\$1,450 00	
Transferred from water fund	. . . . .	
surplus of 1902	. . . . .	5,221 74	
		<hr/>	\$6,671 74

Expended.

Paid to sinking fund commissioners	\$6,671 74	
	<hr/>	<hr/>
	\$6,671 74	\$6,671 74

FOURTH OF JULY CELEBRATION.

Appropriation		\$1,000 00
Band	\$85 00	
Fireworks	335 00	
Lumber	23 17	
Use of block and tackle	5 00	
	<hr/>	
	\$448 17	
Balance to 1904	51 83	
Overdraft 1902	500 00	
	<hr/>	<hr/>
	\$1,000 00	\$1,000 00

HISTORY OF MELROSE.

Balance 1902	\$554 77	
Cash received sale of books	200 00	
	<hr/>	
		\$754 77

Expended.

Printing	\$625 56	
Balance to 1904	129 21	
	<hr/>	<hr/>
	\$754 77	\$754 77
Due from The A. W. Dunton Printing Company, \$276.34. Copies on hand, 754.		

SEWER ASSESSMENTS.

Balance 1902	\$2,653 81	
Collected	13,420 51	
	<hr/>	
		\$16,074 32

Expended.

Transferred to sewer construction	. \$11,165	38	
Transferred to interest . . . .	. 2,585	73	
	\$13,751	11	
Balance to 1904 . . . . .	. 2,323	21	
	\$16,074	32	\$16,074 32

CEMETERY TRUST FUNDS.

Balance 1902	\$8,984	00	
Cash received (See treasurer's report)	1,466	50	
			10,450 50

E. TOOTHAKER TRUST FUND.

Balance 1902	\$1,327	10	
Interest	47	23	
			1,374 33

Expended.

Cash allowance	\$10	99	
Food	28	93	
Fuel	106	41	
	\$146	33	
Balance to 1904	1,228	00	
	\$1,374	33	\$1,374 33

TAXES.

1899

Balance uncollected Jan. 31, 1903 .	\$43	97	
Additional	01		
Interest	2	87	
Cash overpaid	01		
	\$46	86	

Abated	\$21 13
------------------	---------

\$25 73

Collected and paid treasurer . . .	25 73
------------------------------------	-------

1900

Balance uncollected Jan. 31, 1903	\$1,958 60
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Additional	100 00
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Interest	27 33
--------------------	-------

\$2,085 93

Abated	50 00
------------------	-------

\$2,035 93

Collected and paid treasurer . . .	331 83
------------------------------------	--------

Balance uncollected Jan. 31, 1904	-----	\$1,704 10
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1901

Balance uncollected Jan. 31, 1903	\$11,239 67
-----------------------------------	-------------

Additional	308 21
----------------------	--------

Interest	786 40
--------------------	--------

\$12,334 28

Abated	712 78
------------------	--------

\$11,621 50

Collected and paid treasurer . . .	9,136 77
------------------------------------	----------

Balance uncollected Jan. 31, 1904	-----	\$2,484 73
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1902

Balance uncollected Jan. 31, 1903	\$114,146 14
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Additional	309 88
----------------------	--------

Interest	3,385 63
--------------------	----------

\$117,841 65

Abated	1,598 88
------------------	----------

\$116,242 77

Collected and paid treasurer . . .	95,309 97
------------------------------------	-----------

Balance uncollected Jan. 31, 1904	-----	\$20,932 80
-----------------------------------	-------	-------------

1903

Warrant	\$281,301	34	
Additional	618	55	
Interest	221	28	
	<hr/>		
	\$282,141	17	
Abated	3,314	48	
	<hr/>		
	\$278,826	69	
Collected and paid treasurer . .	158,634	31	
Balance uncollected Jan. 31, 1904	<hr/>		\$120,192 38
			<hr/>
			\$145,314 01

REFUNDED TAXES.

Transferred from overlays . . .		\$30 76	
Expended.			
Cash refunded illegal assessment .	\$30 76		
	<hr/>		
	\$30 76		\$30 76

REFUNDED SEWER ASSESSMENT.

Expended.

Cash refunded abatement	\$50 31
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TAX TITLE TAKING.

Balance unredeemed Jan. 31, 1903 .	\$8,491 25
Paid collector	254 78
Paid registrar of deeds	6 23
	<hr/>
	\$8,752 26
Cash received titles redeemed . .	4,093 56
	<hr/>
	\$4,658 70

Less transferred to City of Melrose

unredeemed R. E. . . . \$246 47

Total amount unredeemed Jan. 31,

1904 \$4,412 23

CITY OF MELROSE, UNREDEEMED REAL ESTATE.

Transferred from tax title taking . \$246 47

Paid collector 66 00

Paid registrar of deeds 2 37

Amount unredeemed Jan. 31, 1904 . \$314 84

ELL POND PARK LOAN.

Appropriation \$1,000 00

Expended.

Paid note due May 15, 1903 . . \$1,000 00

SURFACE DRAINAGE LOAN.

Appropriation \$2,000 00

Expended.

Paid notes due Oct. 1902 and 1903 . \$4,000 00

Overdraft 2,000 00

\$4,000 00 \$4,000 00

SOLDIERS' MONUMENT.

Balance 1903 \$8 55

Expended.

Transferred to treasury . . . \$8 55

\$8 55 \$8 55

LOANS, MUNICIPAL AND PERMANENT.

Balance, Jan. 31, 1902	\$61,000 00	
Cash received for notes	28,000 00	
	<hr/>	\$89,000 00

Expended.

Paid sundry notes	\$25,000 00	
Balance to 1903, see treasurer's re- port for details	\$64,000 00	
	<hr/>	\$89,000 00 \$89,000 00

LOANS TEMPORARY.

Balance June 31, 1902	\$147,703 03	
Cash received for notes	181,267 20	
	<hr/>	\$328,970 53

Expended.

Paid sundry notes	\$215,570 53	
Balance to 1903, see treasurer's re- port for details	113,400 00	
	<hr/>	\$328,970 53 \$328,970 53

OVERLAYS, ADDITIONALS AND ABATEMENTS.

TAXES OF 1895-96-97-98-99.

Balance Jan. 31, 1903	\$5,845 31	
Additional	01	
	<hr/>	\$5,845 32
Abated in 1903	43 09	
	<hr/>	
Balance Jan. 31, 1904	\$5,802 23	\$5,802 23

CITY OF MELROSE

TAXES OF 1900.

Balance Jan. 31, 1903	\$543 30	
Additional	100 00	
	<hr/>	
	\$643 30	
Abated in 1903	54 50	
	<hr/>	\$588 80

TAXES OF 1901.

Balance Jan. 31, 1903	\$637 35	
Additional	308 21	
	<hr/>	
	\$945 56	
Abated	712 78	
	<hr/>	232 78
		<hr/>
		\$6,623 81

TAXES OF 1902.

Balance Jan. 31, 1903, overdraft	\$1,398 68	
Additional	309 88	
	<hr/>	
	\$1,088 80	
Abated in 1903	1,603 18	
	<hr/>	2,691 98
		<hr/>
		\$3,931 83

TAXES OF 1903.

Overlay	\$3,692 28	
Additional	618 55	
	<hr/>	
	\$4,310 83	
Abated in 1903	3,314 48	
	<hr/>	996 35
		<hr/>
Balance to 1904		\$4,928 18

PARKS.

Balance 1902	.	.	.	.	.	\$63 53
Appropriation	.	.	.	.	.	100 00
						<u>—————</u> \$163 53

See Supt. of P. W. R. for details	.	\$92 00	
Transferred to treasury	. . .	63 53	
Balance to 1904	8 00	
		<u> </u>	<u> </u>
		\$163 53	\$163 53

SALARIES.

Appropriation	\$1,500 00
Transferred from water fund	1,300 00
	<u>—————</u> \$2,800 00

See Supt. of P. W. R. for detail	\$2,179 20	
Balance to 1904	620 80	
	<u>2,800 00</u>	<u>\$2,800 00</u>

Balance 1902	\$39 70
Appropriation	300 00
						<u>—————</u> \$339 70

See Supt. of P. W. R. for detail . . .	\$256 36	
Transferred to treasury . . .	39 70	
Balance to 1904 . . .	43 64	
	<u>\$339 70</u>	<u>\$339 70</u>

CITY OF MELROSE

PUBLIC WORKS OFFICE.

BOARD AND CARE OF HORSE.

Appropriations	\$300 00	
Transferred from clerical service	11 93	
	<hr/>	\$311 93

Expended.

See Supt. of P. W. R. for detail	\$311 93	
	<hr/>	\$311 93
		<hr/>
	\$311 93	\$311 93

CLERICAL SERVICES.

Balance 1902	\$0 50	
Appropriation	500 00	
	<hr/>	\$500 50

Expended.

See Supt. of P. W. R. for detail	\$468 00	
Transferred to board of horse	11 93	
Transferred to treasury	50	
Balance to 1904	20 07	
	<hr/>	\$500 50
		<hr/>
	\$500 50	\$500 50

TELEPHONE SERVICES.

Balance 1902	\$22 93	
Appropriation	60 00	
	<hr/>	\$82 93

Expended.

See Supt. of P. W. R.	\$59 14	
Transferred to treasury	22 93	
Balance to 1904	86	
	<hr/>	\$82 93
		<hr/>
	\$82 93	\$82 93

CONTINGENT.

Balance 1902	\$0 32	
Appropriation	300 00	
	<hr/>	\$300 32

Expended.

See Supt. of P. W. R. for detail . . .	\$274 00	
Transferred to treasury	32	
Balance to 1904	26 00	
	<u>\$300 32</u>	<u>\$300 32</u>

CITY HALL.

JANITOR.

Balance 1902	\$26 50	
Appropriation	750 00	
	<u>776 50</u>	<u>\$776 50</u>

Expended.

See Supt. of P. W. R.	\$736 50	
Transferred to contingent	5 79	
Transferred to treasury	26 50	
Balance to 1904	7 71	
	<u>\$776 50</u>	<u>\$776 50</u>

HEATING.

Appropriation	\$300 00
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Expended.

See Supt. of P. W. R	\$299 29	
Balance to 1904	71	
	<u>\$300 00</u>	<u>\$300 00</u>

LIGHTING.

Balance 1902	\$245 00	
Appropriation	800 00	
	<u>\$1,045 00</u>	<u>\$1,045 00</u>

Expended.

See Supt. of P. W. R.	\$704 81	
Transferred to treasury	245 00	
Balance to 1904	95 19	
	<u>\$1,045 00</u>	<u>\$1,045 00</u>

CITY OF MELROSE

CONTINGENT.

Balance 1902	.	.	.	.	.	\$ 3 08
Appropriation	.	.	.	.	.	500 00
Transferred from treasury	.	.	.	.	.	25 00
Transferred from janitor	.	.	.	.	.	5 79
						<u>533 87</u>

Expended.

See Supt. of P. W. R.	\$530 76	
Transferred to treasury	3 08	
Balance to 1904	03	
	<hr/>	<hr/>
	\$533 87	\$533 87

HIGHWAY DIVISION.

BRIDGES AND CULVERTS.

Balance 1902	\$86 02
--------------	---	---	---	---	---	---------

Expended.

Transferred to treasury	.	.	.	\$86 02	
				<u> </u>	<u> </u>
				\$86 02	\$86 02

COLLECTING ASHES.

Balance 1902	.	.	.	.	.	\$877 00
Appropriation	.	.	.	.	.	800 00
						<u>\$1,677 00</u>

Expended.

See Supt. of P. W. R.	\$1,519 84	
Balance to 1904	157 16	
	<u> </u>	<u> </u>
	\$1,677 00	\$1,677 00

GRANITE CROSSINGS.

Balance 1902	\$0 77	
Appropriation	500 00	
	<hr/>	<hr/>
		\$500 77

Expended.

See Supt. of P. W. R.	\$500 00	
Transferred to treasury	77	
	<hr/>	<hr/>
	\$500 77	\$500 77

REMOVING SNOW AND SANDING WALKS.

Appropriation	\$2,000 00
-------------------------	------------

Expended.

See Supt. of P. W. R. for detail	\$2,000 00	
	<hr/>	<hr/>
	\$2,000 00	\$2,000 00

STONE BOUNDS.

Balance 1902		\$64 79
Balance to 1904	\$64 79	
	<hr/>	<hr/>
	\$64 79	\$64 79

GENERAL REPAIRS AND MAINTENANCE.

Balance 1902	\$362 99	
Appropriation	20,200 00	
Cash, excise tax, street railways	1,622 64	
Cash, W. D. Hunter	1,282 07	
Cash, sundry bills from sundry divisions	3,460 08	
	<hr/>	<hr/>
		\$26,927 78

Expended.

See Supt of P. W. R. for details	. \$26,071	51	
Transferred to brown tail and gypsy moth		287	08
Transferred to water maintenance		12	88
Balance to 1904		556	31
		<hr/>	
	\$26,927	78	\$26,927 78

SEWER DIVISION.

CONSTRUCTION.

Balance 1902	. \$3,947	02	
Cash, W. D. Hunter		34	17
" sundry bills, sundry divisions		2,567	45
Transferred from sewer assessment collection		11,165	38
		<hr/>	
			\$17,714 02

Expended.

See Supt. of P. W. R.	. \$14,718	83	
Balance to 1904		2,995	19
		<hr/>	
	\$17,714	02	\$17,714 02

MAINTENANCE.

Balance 1902	. \$117	45	
Appropriation		800	00
		<hr/>	
			\$917 45

Expended.

See Supt. of P. W. R.	. \$694	08	
Transferred to treasury		117	45
Balance to 1904		105	92
		<hr/>	
	\$917	45	\$917 45

PRIVATE SEWERS.

Balance 1902	.	.	.	.	.	\$12 31	
Cash received	.	.	.	.	.	2,061 72	
						<hr/>	
							\$2,074 03

Expended.

See Supt. of P. W. R.	.	.	.	.	.	\$2,002 62	
Balance to 1904	.	.	.	.	.	71 41	
						<hr/>	
						\$2,074 03	\$2,074 03

SIDEWALK DEPARTMENT.

REPAIRS OF PRESENT WALK.

Balance 1902	.	.	.	.	.	\$18 45	
Appropriation	.	.	.	.	.	1,000 00	
						<hr/>	
							\$1,018 45

Expended.

See Supt. of P. W. R.	.	.	.	.	.	\$1,017 58	
Balance to 1904	.	.	.	.	.	87	
						<hr/>	
						\$1,018 45	\$1,018 45

NEW CONTINUOUS WALKS.

Balance 1902	.	.	.	.	.	\$824 63	
Appropriation	.	.	.	.	.	500 00	
Cash receipts	.	.	.	.	.	536 02	
Transferred from new individual	.	.	.	.	.	15 00	
						<hr/>	
							\$1,875 65

Expended.

See Supt. of P. W. R.	.	.	.	.	.	\$1,342 07	
Balance to 1904	.	.	.	.	.	533 58	
						<hr/>	
						\$1,875 65	\$1,875 65

CITY OF MELROSE

NEW INDIVIDUAL WALKS.

Balance 1902	.	.	.	.	.	\$494	99	
Appropriation	.	.	.	.	.	1,300	00	
Cash receipts	.	.	.	.	.	1,124	99	
						<u> </u>		\$2,919 98

Expended.

See Supt. of P. W. R.	\$2,775 43	
Transferred to new continuous	15 00	
Balance to 1904	129 55	
	<hr/>	
	\$2,919 98	\$2,919 98

EDGESTONES, MAIN STREET.

Balance 1902	\$5 98
--------------	---	---	---	---	---	--------

Expended.

Transferred to treasury	. . .	5 98	
		<u>5 98</u>	<u>5 98</u>

STREET LIGHTS.

Balance 1902	.	.	.	.	.	\$233 13
Appropriation	.	.	.	.	.	12,232 00
Transferred to treasury	.	.	.	.	.	220 20
						<u>————</u> \$12,685 33

Expended.

See Supt. of P. W. R.	\$12,452 20	
Transferred from treasury	233 33	
	<u>\$12,685 53</u>	<u>\$12,685 33</u>

STREET SPRINKLING.

Cash receipts	\$3,877 14
Less overdraft 1902	2,430 06
	<u>\$1,447 08</u>

Expended.

See Supt. P. W. R.	.	.	.	.	\$4,352 05	
Overdraft	.	.	.	.		2,904 97
					<hr/>	
					\$4,352 05	\$4,352 05

SURFACE DRAINAGE.

Balance 1902	.	.	.	.	\$387 67	
Proceed of sale of bonds	.	.	.	.	40,000 00	
Cash sundry bills, sundry divisions	.	.	.	.	155 00	
Cash W. D. Hunter	.	.	.	.	1,101 75	
					<hr/>	\$41,644 42

Expended.

See Supt. of P. W. R.	.	.	.	.	\$22,190 91	
Balance to 1904	.	.	.	.	19,453 51	
					<hr/>	
					\$41,644 42	\$41,644 42

WELLS DRAIN.

Balance 1902		\$615 50
--------------	---	---	---	---	--	----------

Expended.

See Supt. of P. W. R..	.	.	.	.	\$615 50	
					<hr/>	
					\$615 50	\$615 50

WATER DIVISION.

WATER FUND.

Balance 1902	.	.	.	.	\$10,354 70	
Proceed of sale of bonds	.	.	.	.	25,000 00	
Cash receipts	.	.	.	.	52,134 24	
					<hr/>	\$87,488 94

Expended.

Paid interest coupons	\$10,080	00
Paid state treasurer, W. L. S. F.	3,630	11
" " " interest	11,243	27
" " " maintenance	2,941	96
Transferred to water loan sinking fund	5,221	74
" " engineering division salaries	1,300	00
Transferred to construction	25,000	00
" " maintenance	21,135	09
Balance to 1904	6,936	77
	<hr/>	<hr/>
	\$87,488	94 \$87,488 94

CONSTRUCTION.

Transferred from water fund	\$25,000	00
---------------------------------------	----------	----

Expended.

See Supt. of P. W. R.	\$14,901	05
Overdraft 1902	9,698	80
Balance to 1904	400	15
	<hr/>	<hr/>
	\$25,000	00 \$25,000 00

MAINTENANCE.

Cash receipts	\$1,814	35
Cash sundry bills, sundry divisions	14,518	33
Transferred from highway maintenance	12	88
" " water fund	21,135	09
	<hr/>	<hr/>
	\$37,480	65

Expended.

See Supt. P. W. R.	\$37,480	65
	<hr/>	<hr/>
	\$37,480	65 \$37,480 65

CITY SCALES.

Balance 1902	.	.	.	.	.		\$29 43
Balance 1904	.	.	.	.	.	\$29 43	
						<u>\$29 43</u>	<u>\$29 43</u>

DIX POND.

Balance 1902		\$0 50
--------------	---	---	---	---	---	--	--------

Expended.

Transferred to treasury	.	.	.			\$0 50	
						<u>\$0 50</u>	<u>\$0 50</u>

BROWN TAIL AND GYPSY MOTHS.

Balance 1902	.	.	.	.	.	\$1 25	
Appropriation	.	.	.	.	.	1,500 00	
Cash receipts	.	.	.	.	.	111 98	
Transferred from highway maintenance						287 08	
						<u>—————</u>	<u>\$1,900 31</u>

Expended.

See Supt. of P. W. R.	.	.	.			\$1,399 06	
Transferred to treasury	.	.	.			1 25	
Overdraft 1902	.	.	.	.	.	500 00	
						<u>—————</u>	<u>\$1,900 31</u>
						<u>\$1,900 31</u>	<u>\$1,900 31</u>

CITY HALL IMPROVEMENT.

Balance 1902		\$7 10
--------------	---	---	---	---	---	--	--------

Expended.

Transferred to treasury	.	.	.			\$7 10	
						<u>\$7 10</u>	<u>\$7 10</u>

REPAIRS TO CITY HALL BASEMENT.

Balance 1902		\$13 54	
Expended.			
Transferred to treasury	\$13 54		
	<u> </u>	<u> </u>	
	\$13 54		\$13 54

IMPROVEMENT OF COMMON.

Balance 1902		\$8 72	
Expended.			
Transferred to treasury	\$8 72		
	<u> </u>	<u> </u>	
	\$8 72		\$8 72

LIFE SAVING APPARATUS.

Balance 1902		\$22 73	
Expended.			
See Supt. of P. W. R.	\$ 1 00		
Balance to 1904	21 73		
	<u> </u>	<u> </u>	
	\$22 73		\$22 73

SCHEDULE OF CITY PROPERTY.

FIRE DEPARTMENT.

Central fire station, on City Hall lot . . . \$20,000 00

Hose No. 3.

Building	\$1,200 00	
10,367 sq. feet land	3,075 00	
	<u> </u>	\$4,275 00

Hose No. 4.

Building	\$1,800 00	
5,625 sq. feet land	550 00	
	<hr/>	\$2,350 00
Personal property		12,356 50
Fire alarm system		16,750 00
		<hr/>
		\$55,731 50

CHARITY DEPARTMENT.

Personal property, schedule on file	1,429 31
-----------------------------------------------	----------

POLICE DEPARTMENT.

Personal property, schedule on file	905 30
-----------------------------------------------	--------

PUBLIC LIBRARY.

Personal property, schedule on file	10,000 00
-----------------------------------------------	-----------

SCHOOL DEPARTMENT.

Converse school building	\$5,000 00	
21,017 square feet land	1,050 00	
	<hr/>	\$6,050 00
Franklin school building	\$30,000 00	
21,752 square feet land	6,575 00	
	<hr/>	36,575 00
Gooch school building	\$25,000 00	
21,815 square feet land	4,450 00	
	<hr/>	29,450 00
High school building	\$100,000 00	
116,385 square feet land	58,200 00	
	<hr/>	158,200 00
Lincoln school building	\$30,000 00	
27,604 square feet land	6,900 00	
	<hr/>	36,900 00
Livermore school building	\$12,000 00	
26,555 square feet land	6,650 00	
	<hr/>	18,650 00

Mann, Horace, school building	. . .	\$20,000 00	
26,331 square feet land	. . .	4,475 00	
		<hr/>	24,475 00
Ripley school building	. . .	\$2,200 00	
14,567 square feet land	. . .	575 00	
		<hr/>	2,775 00
Sewall school building	. . .	\$8,000 00	
14,748 square feet land	. . .	7,375 00	
		<hr/>	15,375 00
Warren school building	. . .	\$14,000 00	
18,572 square feet land	. . .	2,300 00	
		<hr/>	16,300 00
Washington school building	. . .	\$30,000 00	
30,794 square feet land	. . .	4,000 00	
		<hr/>	34,000 00
West side school building	. . .	\$1,000 00	
11,880 square feet land	. . .	3,325 00	
		<hr/>	4,325 00
Whittier school building	. . .	\$7,500 00	
15,000 square feet land	. . .	3,000 00	
		<hr/>	10,500 00
Winthrop school building	. . .	\$11,000 00	
26,544 square feet land	. . .	1,600 00	
		<hr/>	12,600 00
Total buildings and lands	. . .		406,175 00
Personal property	. . .		40,650 00
		<hr/>	
Total	. . .		\$446,825 00

SUNDRIES.

Old school building, Chestnut street	\$500 00	
12,000 square feet land	2,400 00	
	<hr/>	2,900 00
Old school building, Green street	\$500 00	
24,500 square feet land	3,600 00	
	<hr/>	4,100 00
Old school building, Upham street	\$600 00	
11,400 square feet land	675 00	
	<hr/>	1,275 00

Old High school lot, Emerson street, 30,300 square feet land . . .	\$10,600 00	
New Public Library building, ex- pended to date	23,870 71	
	<hr/>	\$34,470 71
		<hr/>
		\$42,745 71

WYOMING CEMETERY.

Buildings	\$2,650 00	
47 and three quarters acres land . .	30,000 00	
Water system	950 00	
Personal property	74 00	
	<hr/>	\$33,674 00

PUBLIC WORKS DEPARTMENT.

City hall building	\$65,000 00	
44,934 square feet land	67,400 00	
Furniture, fixtures and sundries, schedule on file	8,727 95	
	<hr/>	\$141,127 95

HIGHWAY DIVISION.

Crusher lot, Maple street, 49,015 square feet of land	\$1,000 00	
Crusher lot, Linwood avenue, 132,- 877 square feet land	3,200 00	
Stone crusher plant, tools, etc. . .	4,800 00	
Road roller, scrapers, plows, sprink- ling carts, etc.	717 50	
Horses, carts, harnesses, tools, etc.	2,516 00	
Stock, crusher	752 30	
Stock, yard	322 26	
	<hr/>	\$13,308 06

PUBLIC PARKS.

Ell Pond park	\$15,000 00	
Melrose common, 4 35-100 acres . .	10,000 00	
Sewall Woods park, 9 acres and 10,000 square feet land	11,250 00	

Strip east side Ell pond	\$1,000 00	
Lot, Main and Green streets, 5000 square feet land	500 00	
Lot, Main and Lynde streets, 5000 square feet land	1,250 00	
Settees	25 00	
	<hr/>	\$39,025 00

SEWER DIVISION.

Sewer system, cost of construction	\$387,850 43	
Personal property, stock and tools	2,621 05	
	<hr/>	\$390,471 48

SURFACE DRAINAGE.

Cost of construction	\$41,764 02	
Personal property, stock	182 80	
	<hr/>	\$41,946 82

WATER DIVISION.

Water system, cost of construction	\$454,285 82	
Personal property, stock, tools and stable	8,233 06	
Personal property, meters	1,547 40	
	<hr/>	\$464,066 28

RECAPITULATION.

Fire department	\$ 55,731 50	
Charity "	1,429 31	
Police "	905 30	
Public library	10,000 00	
School department	446,825 00	
Sundries	42,745 71	
Wyoming cemetery	33,674 00	
City Hall	141,127 95	
Highway division	13,308 06	
Public parks	39,025 00	
Sewer division	390,471 48	
Surface drainage	41,946 82	
Water division	464,066 28	
	<hr/>	\$1,681,256 41

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CITY CLERK'S REPORT.

MELROSE, MASS, April 14, 1904.

To His Honor the Mayor, Melrose, Mass.:

DEAR SIR : In compliance with the city ordinances, I have the honor to transmit herewith the annual report of the receipts of the city clerk's department, the same being for the municipal year ending January 31, 1904, the payment of the same to the proper authorities, the vital statistics of the city of Melrose for 1903, with the assessed polls and voters.

Respectfully yours,

W. DEHAVEN JONES,

City Clerk.

FEES RECEIVED IN CITY CLERK'S DEPARTMENT, 1903, FOR FINANCIAL YEAR FEB. 1, 1903-JAN. 31, 1904.

Returning births, marriages and deaths . . .	\$210 70
Intention of marriages, 140 @ 50 cents . . .	70 00
Mortgages, 109 @ 75 cents . . .	81 75
Releases, sales, etc., 27 @ 25 cents . . .	6 75
Hurdy gurdy licenses, 9 @ \$1 . . .	9 00
Fireworks licenses, 13 @ \$2 . . .	26 00
Entertainments and dances, 29 @ \$1 . . .	29 00
Junk licenses, 4 @ \$10, 1 @ \$5, 1 @ \$2.50 . . .	47 50
Second hand article store license . . .	2 00
Auctioneers' licenses, 12 @ \$2 . . .	24 00
Express and job licenses, 21 @ \$1 . . .	21 00
Drivers' licenses, 9 @ \$1 . . .	9 00
Carriage licenses, 11 @ \$1 . . .	11 00
Copies of death certificates . . .	1 00
Gunpowder and firearms, 2 @ \$2 . . .	4 00
Employment office . . .	1 00

\$553 70

April 18, 1903, paid city treasurer .	\$210 70
April 18, 1903, " " " .	20 00
May 4, 1903, " " " .	20 00
May 13, 1903, " " " .	20 00
June 1, 1903, " " " .	10 00
June 6, 1903, " " " .	20 00
June 16, 1903 " " " .	25 50
June 18, 1903, " " " .	10 00
June 29, 1903, " " " .	13 80
June 22, 1903 " " " .	30 00
July 25, 1903, " " " .	20 00
Sept. 3, 1903, " " " .	50 00
March 7, 1904, " " " .	70 00
April 6, 1904, " " " .	33 70
	<hr/>
	\$553 70

DOG LICENSES.

W. DE HAVEN JONES, City Clerk, Melrose, in account with
MIDDLESEX COUNTY TREASURER.

503 male licenses @ \$2 each, . .	\$1,006 00
60 females licenses @ \$5 each, . .	300 00
1 breeder's license @ \$25, . .	25 00
	<hr/>
	\$1,331 00
564 licenses less 20 cents each,	112 80
	<hr/>
	\$1,218 20
June 3, 1903, by check to county treasurer,	\$641 60
Dec. 3, 1903, by check to county treasurer	576 60
	<hr/>
	\$1,218 20

BIRTHS.

Whole number recorded in 1902	.	.	279
Whole number recorded in 1903	.	.	285
Increase from last year	.	.	6
Number of males born	.	153	
Number of females born	.	132	
		----	285
Number of twin births	.	.	3

MARRIAGES.

Number of intentions filed	.	.	141
Both parties residents of Melrose	.	59	
But one party a resident of Melrose	.	82	
		----	141
Number of marriages recorded	.	.	157
Both parties residents of Melrose	.	61	
But one party a resident of Melrose	.	80	
Neither party a resident of Melrose	.	16	
		----	157
First marriage of	.	279	
Second marriage of	.	32	
Third marriage of	.	2	
Fourth marriage of	.	1	
		----	314
Age of oldest groom	.	67	
" " youngest groom	.	19	
" " oldest bride	.	76	
" " youngest bride	.	17	

DEATHS.

Number of deaths for 1903	.	.	188
Number of deaths of males	.	95	
Number of deaths of females	.	91	
Number of deaths of unknown	.	2	
		----	188

Number of deaths of persons

Under 1 year of age	32
From 1 to 5 years	10
“ 5 “ 10 “	3
“ 10 “ 20 “	5
“ 20 “ 30 “	15
“ 30 “ 40 “	22
“ 40 “ 50 “	9
“ 50 “ 60 “	19
“ 60 “ 70 “	25
“ 70 “ 80 “	34
“ 80 “ 90 “	8
“ 90 “ 100 “	5
Over 100 years	1

188

Oldest male, 92 years, 7 months and 24 days.

Oldest female, 100 years, 7 months and 17 days.

Burial permits issued 188

ASSESSED POLLS AND VOTERS.

	Polls.	Males.	Voted.	Females.	Voted.
Ward 1.....	480	374	246	45	5
Ward 2.....	651	439	253	41	8
Ward 3.....	555	392	290	55	22
Ward 4.....	464	346	218	68	26
Ward 5.....	550	333	196	22	10
Ward 6.....	714	480	342	39	6
Ward 7.....	638	401	334	13	0
Totals.....	4,052	2,765	1,879	283	77

The following is a statement of the votes cast in the several wards of the city, November 3, 1903, for Governor of the Commonwealth.

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
John L. Bates, Republican.....	193	183	185	195	154	206	156	1,272
Thos. E. Brennan, S. Labor.....	0	1	0	1	0	1	0	3
John C. Chase, Socialist.....	10	9	6	5	10	8	5	53
Oliver W. Cobb, Prohibition.....	4	1	1	1	2	3	1	13
William A. Gaston, Democrat.....	56	63	102	52	69	125	111	578
Blanks	2	4	3	1	8	6	10	34
Totals.....	256	261	297	255	243	349	283	1,953

The following is a statement of the votes cast in the several wards of the city, December 8, 1903, for mayor, aldermen-at-large, school committee and ward aldermen, etc.

Candidate and Party.	Wards							Totals
	1	2	3	4	5	6	7	
Sidney H. Buttrick, Republican, M.								
L. N. P.....	105	209	224	171	145	265	230	1,439
Blanks	51	44	66	47	51	77	104	440
Totals.....	246	253	290	218	196	342	334	1,879

ALDERMEN-AT-LARGE, For two (2) years.

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
Charles J. Barton, Citizens' N. M. L.								
N. P.....	165	126	197	142	144	231	233	1,238
George E. Berry, Nom. P.....	57	85	112	59	95	191	189	788
Andrew J. Burnett, Republican...	107	156	175	137	137	260	259	1,231
Arthur H. Folger, R. M. L.....	202	166	156	146	109	163	166	1,108
Charles Elwell French, M. L. N. P.								
Republican	205	137	143	140	94	138	112	969
Oliver B. Munroe, M. L. Nom. P.								
Republican	134	172	187	143	114	173	117	1,040
Blanks	114	170	190	105	91	212	260	1,142
Totals.....	984	1,012	1,160	872	784	1,368	1,336	7,516

CITY CLERK'S REPORT.

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William Andrews Dole, M. L. Nom.									
P. Rep.....	158								
Frank G. Howard, Citizens' Nom.P.	66								
Julian C. Woodman, M. L. Nom. P.									
Republican.....	167								
Blanks	45							436	
William D. Gower, M. L. N. P. Rep.	150								
Lowell F. Wentworth, M. L. Nom.									
P. Rep.....	160								
Blanks	82							392	
Aaron Hill, Jr., M. L. Nom. P. Rep.	267								
Charles C. Swett, Republican.....	236								
Blanks	181							684	
Levi Elms, Republican.....	207								
Fred H. Rounds, M. L. Nom. Paper	126								
Eben M. Taylor, M. L. Nom. Paper									
Republican.....	175								
Blanks	160							668	
Totals	492	506	580	436	392	684	668	3,758	

LICENSE QUESTION.

	Wards							Totals.
	1	2	3	4	5	6	7	
Yes	33	34	59	32	38	64	95	355
No	200	196	206	170	150	251	198	1,371
Blanks	13	23	25	12	8	27	41	149
Totals.....	246	253	290	218	196	342	334	1,879

LICENSE QUESTION BY YEARS.

TOWN.

Years.					Yes.	No.	Blanks.	Totals.
1890	.	.	.	.	53	288	—	—
1891	.	.	.	.	134	613	219	966
1892	.	.	.	.	60	293	34	387
1893	.	.	.	.	233	742	146	1,121
1894	.	.	.	.	247	902	193	1,342
1895	.	.	.	.	220	729	146	1,095
1896	.	.	.	.	261	995	234	1,490
1897	.	.	.	.	341	1,011	218	1,590
1898	.	.	.	.	321	1,163	207	1,691
1899	.	.	.	.	283	1,202	236	1,721

CITY.

1900	.	.	.	.	362	1,581	205	2,148
1901	.	.	.	.	292	1,326	199	1,817
1902	.	.	.	.	341	1,202	125	1,658
1903	.	.	.	.	355	1,371	149	1,879

Respectfully submitted,

W. DeHAVEN JONES,

City Clerk.

LIST OF JURORS

IN THE

CITY OF MELROSE,

As prepared by the Board of Registrars of Voters,
January 27, 1904.

HERBERT A. MARSH, Chairman,
VICTOR C. KIRMES,
EDWIN L. CRAGIN,
W. DeHAVEN JONES, Clerk,
Board of Registrars of Voters.

Approved by the Board of Aldermen, February 15, 1904

WARD I.

Addison, John H., 58 Ferdinand streetJeweler
Batchelder, Harry A., 41 North avenue.....Book-keeper
Bosworth, Louis H., 734 Franklin streetReal Estate
Boden, Edward B., 13 Botolph street.....Retired
Carrie, William A., 18 York terracePrinter
Church, Charles H., 242 Tremont street.....Clerk
Cole, George A., 135 Walton park.....Railroad
Cragin, Simeon, 28 Union streetBook-keeper
Curry, Robert H., 109 Highland avenue.....Plumber
Fawcett, Winthrop S., 22 Greenwood streetSalesman
Ford, Nelson H., 179 Melrose street.....Painter
Fowkes, John H., 33 Sewall Woods road.....Mattresses
Gibson, Joseph, 35 Winthrop placePainter
Houdlette, Marcellus R., 890 Franklin street....Iron & Steel
Morse, William A., 15 Auburn place.....Secretary
Munn, Thomas J., 49 South avenueWatch Maker

Perry, John F., 26 West Hill avenue.....Druggist
 Pinkham, Henry M., 63 Botolph street.....Newspaper
 Robinson, Samuel B., 245 Tremont street.....Retired
 Serra, Julius A., 28 Warwick road.....Barber
 Somes, Rinaldo R., 271 Tremont street.....Salesman
 Spinney, Joseph F., 906 Franklin street.....Salesman
 Steele, Chester F., 10 Ellsworth avenue.....B. R. Shoe Co.
 Tobey, David A., Chaska avenue.....Banker
 Twombly, Albro J., 106 Ashland street.....Stable Keeper

WARD 2.

Anderson, George P., 802 Main street.....Engine Supplies
 Chisholm, Henry, 68 Melrose street.....Salesman
 Collamore, Daniel K., 25 Elm street.....Grocer
 Cook, Orange H., 150 Green street.....Watchman
 Day, Albert A., 45 Ashland street.....Leather
 Divver, Neil A., 22 Albion street.....Broker
 Dunton, Aubrey W., 43 Batchelder street.....Printer
 Fowler, Charles N., 996 Main street.....Window Shades
 Herling, Andrew, 76 Green street.....Clerk
 Johnson, Henry F., 160 Green street.....Painter
 Kelley, Richard B. 58 Frost avenue.....Mason
 Littlefield, Homer S., 65 Green street.....Contractor
 Loring, Alfred R., 9 Pearl street.....Clerk
 Page, Oscar E., 36 Batchelder street.....Agent
 Provandie, Herbert F., 220 Porter street.....Inspector
 Sawyer, Calvin W., 997 Main street.....Insurance
 Simonds, John, 7 Albion street.....Farmer
 Smith, Alden B., 143 Green street.....R. R.
 Smith, Walter E., 129 Rowe street.....Bicycles
 Stewart, William H., 36 Albion street.....Carpenter
 Tully, Edward J., 9 Hawes avenue.....Motorman
 Tuttle, Alton M., 33 Highland avenue.....Nursery Stock
 Watson, Henry, 946 Main street.....Motorman
 Wells, Victor E., 91 Linden street.....Grocer
 Worth, Henry W., 138 Porter street.....Farmer

WARD 3.

Boyd, Charles O., 81 Youle street Clerk
 Briry, William S., 62 Circuit street Druggist
 Bucknam, George C., 85 Cleveland street Retired
 Caldwell, Edward M., 167 Florence street Agent
 Casey, Neil S., 93 Maple street Florist
 Curran, Peter J., 56 Maple street Barber
 Doherty, John T., 61 Tappan street Brass
 Ehlert, Herman F., 238 W. Emerson street Retired
 Gibbons, Joseph, Jr., 18 Baxter street Contractor
 Gibbons, Robert, 121 Trenton street Carpenter
 Harris, Roland Winslow, 9 Youle street Clerk
 Hoffman, Francis W., 44 Charles street Clerk
 Irving, Charles W. D., 182 Trenton street Salesman
 Johnson, Rynard, 15 Baxter street Carpenter
 Keating, John J., 40 Hurd street Gent's Furnishing
 Lord, Walter J., 90 Youle street Type
 McKenney, Fred H., 109 Cleveland street Printer
 Page, Joel C., 136 Vinton street Salesman
 Pendleton, Clifton A., 179 Trenton street Clerk
 Rockwood, Charles H., 51 Cleveland street Clerk
 Simpson, Charles A., 120 Trenton street Book-keeper
 Smith, David, 168 Florence street Retired
 Smith, Warren F., 30 Baxter street Mason
 Whitcomb, Square L., 59 Sanford street Gas
 Woodman, George F., 24 Poplar street Clerk

WARD 4.

Adams, Charles H., 59 Orient avenue Ass't Bus. Mgr.
 Babson, George E., 155 Porter street Clerk
 Buttrick, Charles H., 87 Essex street Salesman
 Carr, Ernest L., 11 Orient avenue Treasurer
 Cassell, James P., 104 Tremont street Laborer
 Currier, Arthur C., 535 Lebanon street Carpenter
 Dempsey, William R., 22 East street Shoes
 Dew, George W., 82 Lake avenue Painter
 Fernald, Frank A., 37 East street Book-keeper

Gordon, Curtis S., 21 Winthrop street Carpenter
 Howard, Frank G., 173 Porter street..... Accountant
 Leonard, Henry A., 499 Lebanon street..... Real Estate
 Lothrop, Ellsworth F., 121 Myrtle street Paints & Oils
 McIntyre, James, 560 Lebanon street..... Retired
 Murphy, David G., 106 Tremont street..... Shoemaker
 Pulley, James M., 33 Porter street..... Cutter
 Seaver, Walter L., 289 Porter street..... Collector
 Shumway, Franklin P., 25 Bellevue avenue..... Advertising
 Snell, Winfred M., 4 Vine street..... Optician
 Stebbins, Charles H., 128 Myrtle street..... Barber
 Stevens, Frank H., 74 Lake avenue..... Manager
 Thatcher, Frank D., 42 Lake avenue..... Printer
 Waterhouse, Harold P., 46 Lake avenue..... Electrician
 Wheeler, Charles O., 16 Hillside avenue..... Insurance
 Wilson, Thomas, 362 Upham street..... Painter

WARD 5.

Bowker, Joseph C., Chestnut street..... Retired
 Briggs, Harry W., 315 Main street..... Salesman
 Bunce, Francis M., 412 Pleasant street..... Grocer
 Burdick, Walter F., 11 Wyoming avenue, E..... Clerk
 Coalfleet, James H., 32 Wyoming avenue, W..... Carpenter
 Cunningham, William J., 14 Adams street... B. R. Shoe Co.
 Dearborn, George H., 315 Main street..... Newspaper
 Du Plessis, Theodore C., 22 Trenton street..... Real Estate
 French, Alfred H., 1 Grundy street..... Reporter
 Glines, Arthur H., 5 Grundy street..... Machinist
 Grundy, Edmund L., 18 Cottage street Book-keeper
 Hawkes, Thomas J., 25 Russell street..... Barber
 Jones, Marcello B., 190 Washington street..... Salesman
 Newell, Frank E., 457 Pleasant street..... Coal
 Owen, Charles S., 97 Trenton street..... Grocer
 Phinney, Otis K., 52 Adams street..... Produce
 Sanborn, Frank E., 12 Chestnut park..... Grocer
 Schaedel, Chas. G., 21 Ashmont street..... Clerk
 Sircom, Richard H., 314 Main street..... Manufacturer

Stevens, George H., 70 Trenton street..... Real Estate
 Stevens, George S., 25 Ashmont street..... Insurance
 Stuart, Robert V., 50 Florence street..... Tailor
 Twitchell, Union B., 30 Francis street..... Furniture
 Welch, Charles S., 290 Washington street..... Fish Dealer
 Woodbury, Merton G., 14 Wyoming avenue, E.... Salesman

WARD 6.

Ames, Benjamin, 7 Gooch street..... Carpenter
 Berry, William A., 110 Grove street..... Cook
 Carr, George W., 220 Grove street..... Salesman
 Chisam, Sanford A., 18 Eighth street..... Milk
 Duffy, William J., 152 Grove street,..... B. R. Shoe Co.
 Eastman, Harry M., 478 Lebanon street..... Clerk
 Field, Charles M., 487 Lebanon street..... Machinist
 Grottendick, George B., 230 Grove street..... Book-binder
 Hitchins, J. Sydney, 69 Laurel street..... Salesman
 Hunt, Edgar O., 17 Herbert street..... Gilder
 Hurd, Harry B., 236 E. Foster street..... Architect
 Kohr, John, 466 Lebanon street..... Retired
 Lovejoy, Bertram E., 132 Foster street..... Real Estate
 McFarlin, William J., 36 Cass street..... Variety Store
 Murray, Michael F., 4 Allen place..... Rubber
 Osgood, Francis T., 121 Foster street, E..... Clerk
 Parker, Albon W., 181 Upham street..... Painter
 Philpot, Robert, 75 Dell avenue..... Contractor
 Sanborn, George I., 123 First street..... Merchant
 Schofield, William E., 135 First street..... Salesman
 Shute, Charles N., 170 Foster St., E..... Clerk
 Van Riper, Peter, 77 Gooch street..... Fountain Pens
 Vaughn, Melburn D., 508 Main street..... Salesman
 Wheeler, Wallace B., 8 Eighth street..... Clerk
 Wiswell, Dexter W., 181 Upham street..... Skirt Cutter

WARD 7.

Albee, Daniel C., 103 Malvern street.....	Painter
Atwood, George H., 113 Malvern street.....	Clerk
Barton, Charles J., 85 Meridian street.....	Salesman
Burnett, Andrew J., 2 Waverly avenue.....	Master Plumber
Copeland, Albert F., 59 Beech avenue.....	Clerk
Dadley, Albert E., 283 Grove street.....	Plumber
Doherty, Charles F., 381 Main street.....	Barber
Elms, Levi, 100 Lebanon street.....	Farmer
Flatley, John C., 99 Linwood avenue.....	Tailor
Goudey, William E. C., 52 Beech avenue...	Superintendent
Henney, William T., 36 Lynde street.....	Painter
Hunewill, Ervin C., 33 Meridian street.....	Carpenter
Johnson, Henry E., 84 Malvern street.....	Insurance
Kennard, Walter I., 85 Malvern street.....	Clerk
McCullough, John J., 54 Summer street.....	Clerk
Nickerson, Lemuel, 35 Irving street.....	Sail Maker
Pike, E. Warren, 29 Argyle street.....	Retired
Richards, John R., 66 Malvern street.....	Book-keeper
Rounds, Fred H., 24 Fairmount street...	Plumbing Supplies
Russell, William F., 20 Harvard street.....	Book-keeper
Short, Patrick A., 32 Mystic avenue.....	Fireman
Smallwood, Thomas, 337 Grove street.....	Clerk
Smith, Fred H., 40 Fairmount street.....	Glass
Tirrell, Edwin J., 49 Appleton street.....	Cashier
Ward, Rufus S., 13 Appleton street.....	Teamster

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